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City of Cambridge

Massachusetts

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1924

THE

ANNUAL REPORTS

Made to the City Council

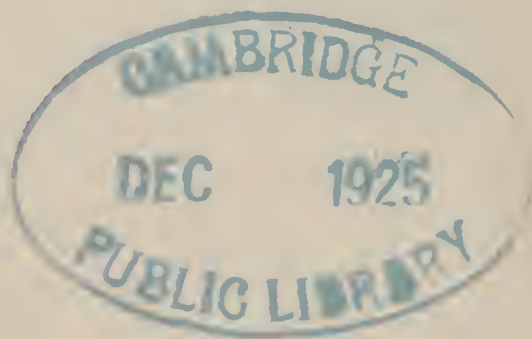
FOR THE

Year Ending March 31, 1924



PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK

73720



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73720



HON. EDWARD W. QUINN
MAYOR OF CAMBRIDGE
MASSACHUSETTS

INAUGURAL ADDRESS
OF
Hon. Edward W. Quinn
1924

Gentlemen of the City Council:—

With inauguration day ceremonies it has become an established custom for the Mayor to present to the Council an outline of his hopes for the future.

I trust that it will not be taken as presuming on my part to present to you, very briefly, conditions as they appear to me and to emphasize a change in the law which restricts cities and towns of this Commonwealth from bonding any permanent improvements until at least twenty-five cents on each thousand dollars of valuation shall have been included in the tax levy.

This law became operative about July first of last year and did not in any way affect our activities in the year 1923; but we are now facing a new year, and with the changed financial conditions which I have called to your attention, it behooves every member of the Council and every head of a department to thoroughly familiarize himself with the restrictions which now govern the financing of public improvements.

The twenty-five cents on each thousand dollars of valuation in Cambridge means practically \$40,000 which will have to be included in our tax levy this year for each and every permanent improvement which we authorize before we can go ahead with the work. In the past we have usually carried through six or seven different classes of improvements each year, so you can clearly see that if we are to continue these activities we face an increase of from \$1.50 to \$1.75 in the tax rate, which was not required under the previous law.

Hence, the most careful consideration must be given to every request before we authorize increasing the tax rate and burdening the present taxpayers with more than their share of improvements, unless absolutely necessary.

I do not for a moment feel that needed improvements shall be refused, but I call attention to the care which we must exercise in differentiating between desire and need.

A glance at our financial statement will demonstrate the fact that we are in excellent condition to meet the demands for any really meritorious improvements.

The net city debt on January 1, 1918, was.....\$5,852,398.74

The net city debt today is 5,348,662.04

A reduction during my term as Mayor of.....\$503,736.70

We have at present under construction the following improvements for which bonds have been issued and unexpended balances for the completion of the work available as follows:

Russell School, \$185,015.54; Houghton School, \$101,543.26; Granite Block Pavements, \$136,072.15; First Street Bridge, \$30,381.42; and Underground Wires, \$19,311.89.

The Fire Department is today completely motorized, and equipped with a two platoon system. These modern methods to conserve life and property, should be made more efficient by the installation of a high pressure fire service, more especially to serve our industrial centers. I, therefore, recommend that we take action to install a high pressure fire service as a further protection to lives of persons employed in our industries and to capital invested therein. •

With the First Street canal bridge nearing completion, a clear regard for the business and traffic interests of the lower district call for prompt action to place the other canal bridges at Third and Sixth Streets, on a par in efficiency with the new steel structure at First Street. Therefore, I shall recommend that appropriation be made sufficient to cover the expense of this necessary work.

Waste, and its economic disposition, is a municipal problem, which is of so pressing a nature as to be rightly regarded as grave. The difficulties of the situation are enhanced by the fact that so large a proportion of residences are situated in the east end and central parts of the city, while our dumping facilities are practically confined to the north and west. Transportation is the key that will open up a solution of this vital

matter. I intend to take immediate action in this concern, and will shortly advise with your body as to a plan I have in mind.

Preparatory work to put the East Cambridge industrial land, owned by the city, in a condition to invite tax paying investment is soon to be concluded with spur tracks through from Munroe Street. It is one of the most inviting locations for high-class manufactories in the Metropolitan District, and we should not pause until the area is fully occupied with great buildings bringing to the public treasury large sums in tax and lease revenues.

After all, the subject that challenges our more immediate response as a matter of duty is roads and traffic, as confined to that section of Cambridge that forms bridge connection with Boston. The astonishing increase in recent years of traffic caused by the influx of automobiles both for business and pleasure, will not mark time in 1924. Rather will the situation be more complicated and increasingly annoying in the future.

Street paving will not alone solve a problem that urgently demands street widening. The new bridge to be placed at the foot of Brookline Street impels the widening of that thoroughfare to match the bridge. A clear vision of future needs advises the extension of such a boulevard across Massachusetts Avenue, following the line of Elm Street to the Somerville border.

The broadening of Prospect Street has long awaited a scientific conception of traffic needs in and about Central Square. It will have to be done sometime, and it will cost more to do it five years hence than now. Then we should intelligently prepare for the time when a widened Cambridge Street in Boston is going to send traffic over the West Boston Bridge into Kendall Square. The widening of Broadway from Kendall Square at least to Mechanics Square, or even farther, would make a connection with the Brookline Street Boulevard and points to the west, therefore, adequately meeting the demands of traffic at this point.

May I be permitted to say that these three proposals disclose a comprehensive plan of urgent traffic needs in Cambridge. We are late in meeting the situation, but not more so than our sister cities. But our location between the natural route joining the north and south sections creates for us a more

insistent difficulty. Projects such as these which aim to serve needs far into the future should justly be borne in part by our posterity. Therefore, I propose to request the General Court to allow Cambridge to borrow outside the debt limit, a sum sufficient to meet the cost of these vital permanent public works. Time and the inevitable increase of taxable values along these routes, will assuredly make the investment a solvent proposition.

In closing, I earnestly request your most active co-operation in the many serious duties that a trusting people have chosen us to perform.

Annual Reports



ANNUAL REPORT OF THE CITY AUDITOR

City Auditor's Office,
April 1, 1924.

To the Honorable, the City Council:—

The undersigned herewith presents a statement of the receipts and payments of the City of Cambridge for the year beginning on the first day of April, 1923, and ending on the thirty-first day of March, 1924.

The first part of this report is devoted to an exhibit arranged upon the Schedules for Uniform Municipal Accounting as issued by the Bureau of Statistics by the Commonwealth of Massachusetts. Following these schedules are presented detailed statements arranged in the same order, together with the usual matters given in the Auditor's report, including a schedule of the city property.

Respectfully submitted,

CHARLES H. THURSTON,
City Auditor.

SCHEDULE A.—IV.

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
GENERAL REVENUE			
1. TAXES			
Current Year			
1. Property	\$3,293,317 15		
2. Poll	104,056 00		
Previous Years			
3. Property	742,482 22		
4. Poll	7,184 00		
From the State			
5. Corporation	432,699 86		
6. Street Railway.....	105,493 98		
7. Bank			
Income Tax	356,270 45		
Total from Taxes	\$5,041,503 66		\$5,041,503 66
2. LICENSES AND PERMITS			
Licenses			
8. Liquor			
9. All Other	9,873 44		
Permits			
10. Marriage	1,704 00		
11. All Other.....			
Total from Licenses and Permits....	\$11,577 44		\$11,577 44
3. FINES AND FORFEITS			
12. Court	17,064 02		
13. Department Penalties.....			
14. Contract Violations.....	102 00		
Total from Fines and Forfeits.....	\$17,166 02		\$17,166 02
Total forward.....			\$5,070,247 12

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward.....			\$5,070,247 12
4. GRANTS AND GIFTS			
Grants from Other Civil Divisions			
15. From State, for Education.....			
a. Support of Public Schools.....			
b. Aid to High Schools.....			
c. Aid to Vocational Schools.....	\$20,631 70		
d. High School Tuition.....			
e. Union Superintendency.....			
f. Americanization Foreign Born.	4,899 28		
g. Sight Saving Class.....	1,250 00		
16. From State, for Armories.....			
17. From State, for Highway			
Purposes			
18. From State, for Other Purposes.			
a. Inspector of Animals.....			
b. Protection against Forest Fires			
c.			
d.			
19. From County, (Dog Licenses)			
for Schools or Libraries.....	3,506 01		
Gifts from Individuals			
20. For Expenses.....	1,760 16		
21. For Outlays.....		5,000 00	
Total from Grants and Gifts.....	\$32,047 15	\$5 000 00	\$37,047 15
5. ALL OTHER GENERAL REVENUE			
22.			
23.			
Total from All Other General Revenue			
Total forward.....			\$5,107,294 27

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Revenue for Outlays	Total
Total forward.....			\$5,107,294 27
COMMERCIAL REVENUE			
6. SPECIAL ASSESSMENT*			
24. Street Sprinkling.....			
25. Moth Extermination.....	\$1,007 49		
26. Sewers		\$5,381 79	
27. Sidewalks and Curbing.....		17,658 94	
28. Other Purposes.....			
Total from Special Assessments.....	\$1,007 49	\$23,040 73	\$24,048 22
7. PRIVILEGES			
29. Public Service.....			
30. Minor			
Total from Privileges.....			
Total forward.....			\$5,131,342 49

*Assessments appropriated for sinking fund purposes or for current expenses should be entered in the first column.

No entries to be made on this page

SEE STATE REPORT

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,131,342 49
8. DEPARTMENTAL			
8a. General Government			
Legislative			
31. Aldermen and Council; Modera- tor			
Executive			
32. Mayor; Commission; Selectmen			
Financial			
33. Auditor, Accountant, and Au- diting			
34. Treasurer	\$4,721 42		
35. Collector			
36. Assessors			
37. License Commissioners.....			
38. Other Finance Offices and Ac- counts			
Other General Departments			
39. Law			
40. City or Town Clerk.....	2,408 75		
General Government forward.....	\$7,130 17		
Total forward.....			\$5,131,342 49

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
1. DEPARTMENTAL			
1a. General Government			
Legislative			
1. Aldermen and Council; Moderator			
a. Salaries and Wages.....	\$13,700 50		
b. Other Expenses.....	9,225 34		
Executive			
2. Mayor; Commission; Selectmen			
a. Salaries and Wages.....	13,145 00		
b. Other Expenses.....	1,753 09		
Financial			
3. Auditor, Accountant, and Audit- ing			
a. Salaries and Wages.....	9,247 00		
b. Other Expenses.....	2,463 40		
4. Treasurer			
a. Salaries and Wages.....	25 582 47		
b. Other Expenses.....	9,210 01		
5. Collector			
a. Salaries and Wages.....			
b. Other Expenses.....			
6. Assessors			
a. Salaries and Wages.....	21,792 87		
b. Other Expenses.....	2,778 71		
7. License Commissioners			
a. Salaries and Wages.....	4,968 10		
b. Other Expenses.....	462 44		
8. Other Finance Offices and Accounts			
a. Sinking Fund Commissioners	640 00		
b. Miscellaneous	1,605 00		
Other General Departments			
9. Law			
a. Salaries and Wages.....	5,448 76		
b. Other Expenses.....	3,585 12		
10. City or Town Clerk.....			
a. Salaries and Wages.....	12,902 00		
b. Other Expenses.....	1,478 23		
General Government forward.....	\$139,988 04		

Schedule A-IV—Continued

PAYMENTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,131,342 49
General Government forward.....	\$7,130 17		
41. City Messenger.....			
42. Public Works.....			
43. Engineering			
44. Superintendent of Buildings....			
45. Election and Registration.....	4 65		
46. Other General Departments.....			
Municipal Buildings			
47. City or Town Hall.....	98 58		
Total from General Government.	\$7,233 40		\$7,233 40
8b. Protection of Persons and Property			
Police Department			
48. Services of Officers.....	4,830 00		
49. Sale of Materials.....	5 00		
50. Miscellaneous	6 25		
Protection of Persons and Property forward	\$4,841 25		
Total forward.....			\$5,138,875 89

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			
General Government forward.....	\$139,988 04		
11. City Messenger			
a. Salaries and Wages.....	3,456 00		
b. Other Expenses.....	472 22		
12. Public Works			
a. Salaries and Wages.....			
b. Other Expenses.....			
13. Engineering			
a. Salaries and Wages.....	5,694 66		
b. Other Expenses.....	806 52		
14. Superintendent of Buildings			
a. Salaries and Wages.....	4,920 50		
b. Other Expenses.....	2,106 28		
15. Election and Registration			
a. Salaries and Wages.....	16,873 18		
b. Other Expenses.....	11,169 45		
16. Other General Departments			
a. Civil Service Labor Registration	518 45		
b. Planning Board.....	39 20		
Municipal Buildings			
17. City or Town Hall			
a. Salaries and Wages.....	21,692 00		
*b. Other Expenses.....	19,541 65		
Total for General Government.....	\$227,278 15		\$227,278 15
1b. Protection of Persons and Property			
Police Department			
18. Salaries and Wages.....	\$377 482 08		
19. Horses and Care of Same.....			
*20. Equipment and Repairs.....	3,366 65	\$5,576 01	
21. Fuel and Light.....	1,429 25		
22. Maintenance of Buildings and Grounds	3,930 30		
*23. New Buildings.....			
24. Other Expenses.....	4,143 86		
Protection of Persons and Property forward	\$390,352 14	\$5,576 01	
Total forward.....			\$227,278 15

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,138,575 89
Protection of Persons and Property forward	\$4,841 25		
Fire Department			
51. Sale of Materials.....	101 00		
52. Miscellaneous			
Militia			
53. Armories			
54. Rifle Ranges.....			
Inspection			
55. Inspection of Buildings.....	6,163 00		
56. Inspection of Wires.....	7,429 85		
57. Sealing of Weights and Measures	915 88		
Forestry			
58. Insect Pest Extermination.....	27 47		
59. Planting and Trimming Trees..	103 67		
60. Forest Fires.....			
Other Protection of Persons and Prop- erty			
61. Bounties			
62.			
63.			
Total from Protection of Persons and Property	\$19,582 12		\$19,582 12
Total forward.....			\$5,158,158 01

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$227,278 15
Protection of Persons and Property forward	\$390,352 14	\$5,576 01	
Fire Department			
25. Salaries and Wages.....	321,015 31		
26. Horses and Care of Same.....	303 93		
*27. Equipment and Repairs.....	4,204 39	1,630 00	
28. Hydrant Service.....			
29. Fuel and Light.....	7,897 78		
30. Maintenance of Buildings and Grounds	5,231 96		
*31. New Buildings.....			
32. Other Expenses.....	701 60		
Militia			
33. Armories			
34. Rifle Ranges.....	316 00		
Inspection			
35. Inspection of Buildings.....	10,070 00		
36. Inspection of Wires.....			
37. Sealing of Weights and Measures	8,743 34		
Forestry			
38. Insect Pest Extermination.....	6,000 00		
39. Planting and Trimming Trees	10,926 89		
40. Forest Fires.....			
Other Protection of Persons and Property			
41. Bounties			
42. Game Wardens.....	50 00		
43. Fire Alarm, Police Telegraph and Inspector of Wires.....	38,146 73	24,300 55	
44. Fire Prevention (Sec. 29, Chap. 148, General Laws).....	1,468 72		
Total from Protection of Persons and Property	\$805,428 79	\$31,506 56	\$836,935 35
Total forward.....			\$1,064,213 50

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,158,158 01
8c. Health and Sanitation			
Health			
64. Quarantine and Contagious Dis- ease Hospitals.....	\$7,773 00		
65. Tuberculosis.	20,908 45		
66. Miscellaneous			
a. School Dentist.....	209 40		
67. Inspection of Milk and Vinegar..	463 50		
Sanitation			
68. Sewers and Sewage Disposal....	5,011 84		
69. Sewer Construction.....			
70. Refuse and Garbage Disposal..	13,263 71		
71. Street Cleaning.....			
Other Health and Sanitation.....			
72.			
73.			
Total from Health and Sanitation.....	\$47,629 90		\$47,629 90
Total forward.....			\$5,205,787 91

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$1,064,213 50
1c. Health and Sanitation			
Health			
45. General Administration.....	\$12,328 01		
*46. Quarantine and Contagious Disease Hospitals.....	32,047 62		
*47. Tuberculosis	59,073 48		
48. Vital Statistics.....	921 00		
49. Other Expenses.....	15,774 11		
a. Schick Testing and Diphtheria Immunization	1,997 00		
b. Abatement Smoke Nuisance....	695 46		
50. Inspection			
a. Inspection of School Children..	24,133 23		
b. Inspection of Animals.....	2,449 96		
c. Inspection of Meat and Provisions	3,545 00		
d. Inspection of Milk and Vinegar	3,917 91		
e. Inspection Infant Welfare.....	6,245 56		
f. Housing Inspector.....	2,100 00		
Sanitation			
51. Sewer Maintenance and Operation	28,018 07		
52. Metropolitan Sewer Maintenance	63,076 25		
*53. Sewer Construction.....		97,876 89	
*54. Refuse and Garbage Disposal....	277,029 59	1,284 36	
*55. Street Cleaning.....	127,619 77		
Other Health and Sanitation			
56. Sanitaries and Public Convenience Stations			
57. Care of Brooks and Streams.....			
58. Draining of Ponds.....			
59. Suppression Flies and Mosquitoes	2,999 21		
Total for Health and Sanitation.....	\$663,971 23	\$99,161 25	\$763,132 48
Total forward.....			\$1 827,345 98

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,205,787 91
8d. Highways			
74. General	\$2,063 20		
75. Construction		\$25 80	
76. Sidewalks and Curbing.....	3,489 25		
77. Snow and Ice Removal.....			
78. Sprinkling			
a. Water			
b. Other			
79. Lighting			
80. Miscellaneous			
Total from Highways.....	\$5,552 45	\$25 80	\$5,578 25
8e. Charities			
81. Almshouse or Town Farm			
a. Sale of Produce and Stock....	1,473 01		
b. Board	4,826 38		
c. Miscellaneous	43 21		
82. Reimbursements for Relief Given			
a. From Individuals.....	538 85		
b. From Other Cities and Towns..	9,144 86		
c. From the State.....	6,865 28		
83. Reimbursements for Mothers' Aid			
a. From Individuals.....			
b. From Other Cities and Towns..	4,599 35		
c. From the State.....	46 467 37		
84. Municipal General Hospitals....	40,690 58		
85. Miscellaneous			
Total from Charities.....	\$114,648 89		\$114,648 89
Total forward.....			\$5,326,015 05

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$1,827,345 98
1d. Highways			
60. General Administration.....	\$9,344 50		
61. General Highway Expenditures.	261,465 43		
*62. Construction		\$371,974 49	
*63. Sidewalks and Curbing.....	1,140 75	51,677 19	
64. Snow and Ice Removal.....	23,400 00		
*65. Sprinkling			
a. Water	6,018 80		
b. Other	1,614 74		
66. Lighting	83,336 63		
67. Other Expenses.....			
a. Town Pump.....			
b. Signs Guide Boards and Street			
Numbering	1,452 66		
c.			
Total for Highways.....	\$387,773 51	\$423,651 68	\$811,425 19
1e. Charities			
68. General Administration.....	12,063 09		
*69. Almshouse or Town Farm.....	40,145 42		
70. Outside Relief by City or Town.	90,604 70		
71. Relief given by Other Cities and			
Towns	10,872 90		
72. Mothers' Aid			
a. Relief given by City or Town..	90,879 55		
b. Relief given by Other Cities and			
Towns	4,788 37		
*73. Municipal General Hospitals....	123,826 16	117 52	
74. Other Expenses.....			
Total for Charities	\$373,180 19	\$117 52	\$373 297 71
Total forward.....			\$3,012,068 88

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,326,015 05
8f. Soldiers' Benefits			
86. State Aid.....	\$6,336 00		
87. Military Aid.....	3,546 75		
88. Soldiers' Burials.....	180 00		
89. Soldiers' Relief.....			
Total from Soldiers' Benefits.....	\$10,062 75		\$10 062 75
8g. Schools			
90. Tuition and Transportation of State Wards.....	3,704 62		
91. Other Tuition.....	6,131 76		
92. Sale of Text Books and Supplies	503 08		
93. Miscellaneous	1,108 19		
93a. Sales food at High School Lunch	13,050 23		
93b. Sales at Continuation and Grade School	35 31		
Total from Schools.....	\$24,533 19		\$24,533 19
8h. Libraries			
94. Fines, Rentals, and Sales.....	2,036 06		
95. Miscellaneous			
Total from Libraries.....	\$2,036 06		\$2,036 06
Total forward.....			\$5 362,647 05

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$3,012,038 88
1f. Soldiers' Benefits			
75. General Administration.....	\$7,046 93		
76. State Aid.....	5,860 00		
77. Military Aid.....	7,193 00		
78. Soldiers' Burials.....	60 00		
a. Soldiers' Burials, American Legion Chap. 378, Gen. Acts, 1922	89 12		
79. Soldiers' Relief.....	49,636 69		
a. Care of Soldiers' Graves.....	167 38		
Total for Soldiers' Benefits.....	\$70,053 12		\$70,053 12
1g. Schools			
80. General Expenses.....			
a. Administrative Salaries.....	12,100 00		
Smith Hughes Fund.....	3,023 21		
b. Other General Salaries.....	44,959 25		
c. Other General Expenses.....	10,853 75		
81. Teachers' Salaries.....	1,111,663 73		
a. Americanization of Foreign Born (Teachers' Salaries).....	6,817 00		
82. Text Books and Supplies.....	73,124 56		
83. Tuition	8,974 97		
84. Transportation	956 80		
85. Support of Truants.....	235 99		
86. Janitors' Services.....	90 163 75		
87. Fuel and Light.....	41,093 71		
88. Maintenance of Buildings and Grounds	40,650 40		
*89. New Buildings.....		211,242 52	
*90. Furniture and Furnishings.....	1,951 63	1,421 32	
91. Rent			
92. Other Expenses.....	3,721 98		
Total for Schools.....	\$1,450 290 73	\$212,663 84	\$1,662,954 57
1h. Libraries			
93. Salaries and Wages.....	41,043 02		
94. Books, Periodicals, etc.....	9,999 08		
95. Binding	3,084 56		
96. Fuel and Light.....	2,151 05		
*97. Buildings	1,625 66		
98. Other Expenses.....	2,023 42	372 40	
Total for Libraries.....	\$59,926 79	\$372 40	\$60,299 19
Total forward.....			\$4,805,375 76

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

[illegible]

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$4,805,375 76
ii. Recreation			
99. General Administration			
a. Salaries and Wages.....	\$4,645 50		
b. Other Expenses.....	851 63		
100. Parks and Gardens.			
a. Salaries and Wages.....	40,230 12		
*b. Improvements and Additions..			
c. Metropolitan Park Maintenance.	87,503 43		
d. Other Expenses.....	13 677 14		
101. Playgrounds and Gymnasias			
a. Salaries and Wages.....	5,240 00		
*b. Improvements and Additions..		\$7,180 68	
c. Other Expenses.....	21,000 46		
102. Bathhouses and Beaches			
a. Salaries and Wages.....	7,046 20		
*b. Improvements and Additions..			
c. Other Expenses.....	1,637 03		
103. Celebrations and Entertainments			
a. Fourth of July.....	3,643 76		
b. Labor Day.....	335 83		
c. Band Concerts.....	44 97		
d. All Other.....	9,530 63		
Total for Recreation.....	\$195,386 74	\$7,180 68	\$202,567 42
Total forward.....			\$5,007,943 18

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,366,082 62
8j. Pensions			
100. Water Department.....	\$9,681 84		
Total from Pensions.....	\$9,681 84		\$9,681 84
8k. Unclassified			
101. Receipts not Recorded under Previous Classifications			
a. Rent land Harvard College....	2 400 00		
b. Rent Buildings, etc.....	623 00		
c.			
d.			
Total from Unclassified.....	\$3,023 00		\$ 3,023 00
Total forward.....			\$5,378,787 46

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$5,007,942 18
1j. Pensions			
104. Retirement made from:—			
a. Clerk of Committees' Dept.....	\$800 00		
b. Treasury Dept.....	1,847 00		
c. License Dept.....	689 00		
d. Engineering Dept.....	946 40		
e. Municipal Building Dept.....	688 50		
f. Fire Dept.....	25,762 25		
g. Police Dept.....	10,735 84		
h. Health Dept.....	800 00		
i. Sewers Dept.....	4 053 00		
j. Street Sanitary Dept.....	2,564 92		
k. Street Maintenance Dept.....	27,510 48		
l. Boston and Cambridge Bridges Dept.	250 00		
m. School Teachers' Dept.....	7,079 21		
n. Public Library Dept.....	624 00		
o. Park Dept.....	1,411 21		
p. Cemetery Dept.....	1,254 58		
q. Water Dept.....	9,681 84		
r. School (Janitors', Agents' and Attendance Dept. Officers').....	5,937 60		
Total for Pensions.....	\$102,635 83		\$102,635 83
1k. Unclassified			
105. Damages to Persons and Personal Property.....	\$11,539 42		
106. Memorial Day.....	2,515 86		
107. City and Town Clocks.....	142 43		
108. Searching Parties.....			
109. Ice for Drinking Fountains....			
110. Payments not Recorded under Previous Classifications			
a. Printing City or Town Reports			
b. Auditing "Special".....	1,543 38		
c. Postage and Stationery.....	862 64		
d. Sundry	1 428 52		
Total for Unclassified.....	\$18,032 25		\$18,032 25
Total forward.....			\$5,128,611 26

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Offsets to Outlays	Total
Total forward.....			\$5,378,787 46
9. PUBLIC SERVICE ENTERPRISES			
102. Electric			
a. Income from Sale of Light and Power			
b. Miscellaneous			
103. Gas			
a. Income from Sale of Gas.....			
b. Sale of By-products (coke, tar, etc.)			
c. Miscellaneous			
104. Water			
a. Income from Sale of Water....	\$463,906 18		
b. Miscellaneous	35,338 38		
105. All Other			
a. Markets			
b. Public Scales.....			
c. Docks and Wharves.....			
d. Ferries			
e. Herring and Alewife Fisheries.			
f. Miscellaneous			
Total from Public Service Enterprises..	\$499,244 56		\$499,244 56
10. CEMETERIES			
106. Sale of Lots and Graves.....	\$24,521 17		
107. Care of Lots and Graves.....	18,232 19		
108. Care of Endowed Lots (Interest on Funds).....	6,215 33		
109. Miscellaneous	14 00		
Total from Cemeteries.....	\$48,982 69		\$48,982 69
11. ADMINISTRATION OF TRUST FUNDS			
110.			
111.			
112.			
Total from Administration or Trust Funds			
Total forward.....			\$5,927,014 71

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Outlays	Total
Total forward.....			\$5,128,611 26
2. PUBLIC SERVICE ENTERPRISES			
111. Electric			
a. Maintenance and Operation.....			
*b. Construction			
112. Gas			
a. Maintenance and Operation.....			
*b. Construction			
113. Water			
a. Maintenance and Operation.....	\$378,659 37		
b. Metropolitan Water Maintenance			
*c. Construction		\$116 945 63	
114. All Other			
a. Markets			
b. Public Scales.....			
c. Docks and Wharves.....			
d. Ferries			
e. Herring and Alewife Fisheries.			
f. Miscellaneous			
Total for Public Service Enterprises.....	\$378,659 37	\$116,945 63	\$495,605 00
3. CEMETERIES			
115. Maintenance	\$47,191 64		
*116. Improvements and Additions..		\$8,076 26	
Total for Cemeteries	\$47,191 64	\$8,076 26	\$55,267 90
4. ADMINISTRATION OF TRUST FUNDS			
117.			
118.			
119.			
Total for Administration of Trust Funds			
Total forward.....			\$5,679,484 16

*Entries for construction or new equipment should be made in the second column.

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS	Revenue for Expenses	Indebtedness	Total
Total forward.....			\$5,927,014 71
12. INTEREST			
113. On Deposits.....	\$8,559 19		
114. On Deferred Taxes.....	74,832 68		
115. On Deferred Special Assessments	722 47		
116. On Sinking Funds.....			
117. On Investment Funds.....			
118. On Public Trust Funds*			
a. Charity			
b. School			
c. Library			
d. Cemetery (for General Care) .			
e. All Other.....			
119. Miscellaneous			
Total from Interest.....	\$84,114 34		\$84,114 34
13. MUNICIPAL INDEBTEDNESS			
120. Loans in Anticipation of Revenue		\$3,400,000 00	
121. Other Temporary Loans.....			
122. Loans for General Purposes....		693,000 00	
123.			
124. Loans for Public Service Enterprises			
125. Loans for Cemeteries.....			
126. Bonds Refunded. Current Year			
127. Premiums.	1,614 22		
128. Unpaid Warrants or Orders of Current Year			
Total from Municipal Indebtedness.....	\$1,614 22	\$4,093,000 00	\$4,094,614 22
Total forward.....			\$10,105,743 27

*Including income of funds invested in real estate.

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Expenses	Indebtedness	Total
Total forward.....			\$5,679,484 16
5. INTEREST			
120. On Loans in Anticipation of Revenue	\$54,813 12		
121. On Other Temporary Loans....			
122. On Loans for General Purposes	360,059 36		
123. On Trust Funds Used.....	1,800 00		
124. On Loans for Public Service Enterprises	60,556 25		
125. On Loans for Cemeteries.....	580 00		
126. Metropolitan Interest Requirements			
a. Sewer	53,244 04		
b. Park	53,738 36		
c. Water			
127. State Assessment for Interest on Account of Abolition of Grade Crossings			
128. All Other.....			
Total for Interest	\$584,791 13		\$584,791 13
6. MUNICIPAL INDEBTEDNESS			
129. Loans in Anticipation of Revenue		\$3,250,000 00	
130. Other Temporary Loans.....			
131. Bonds and Notes from Sinking Funds			
a. General		547,800 00	
b. Public Service Enterprises.....			
c. Cemeteries			
132. Bonds and Notes from Revenue			
a. General	\$396,100 00		
b. Public Service Enterprises.....	45,000 00		
c. Cemeteries			
133. Metropolitan Sinking Fund and Serial Loan Requirements.....			
a. Sewer	41,507 72		
b. Park	11,184 95		
c. Water			
134. State Assessment for Abolition of Grade Crossing Loan Fund.			
135. Bonds Refunded, Current Year.			
136. Warrants or Orders of Previous Years			
Total for Municipal Indebtedness.....	\$493,792 67	\$3,797,800 00	\$4,291,592 67
Total forward.....			\$10,555,867 96

Schedule A-IV—Continued

RECEIPTS

SOURCES OF RECEIPTS		Non- Revenue	Total
Total forward.....			\$10,105,743 27
14. SINKING FUNDS			
From Commissioners to meet Loans for—			
129. General Purposes.....		\$551,800 00	
130. Public Service Enterprises.....			
131. Cemeteries			
Total from Sinking Funds.....			
		\$551,800 00	\$551,800 00
		Temporary Accounts	
15. AGENCY, TRUST, AND INVEST- MENT TRANSACTIONS			
Agency			
132. Taxes			
a. State		\$427,828 72	
b. Non-resident Bank.....			
c. County		206,180 73	
133. Liquor Licenses Collected for the State			
134. Reimbursements for Abolition of Grade Crossings.....			
135. All Other			
a. City Clerk Agency.....		4,201 50	
b. Rapid Transit in Dorchester...		504 93	
Trust			
136. Perpetual Care Funds.....		9,685 78	
137. Other Permanent Public Trust Funds			
138. Income for Investment.....			
139. Private Trust Funds and Ac- counts		75,473 76	
Investment			
140. Sinking Fund Securities.....			
141. Investment Fund Securities....			
Total from Agency, Trust, and Invest- ment Transactions		\$723,875 42	\$723,875 42
Total forward.....			\$11,381,418 69

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	From Revenue	From Non- Revenue	Total
Total forward.....			\$10,555,867 96
7. SINKING FUNDS			
To Commissioners for Debt Requirements			
137. From Taxes, Earnings, etc.	\$112,304 50		
138. From Special Assessments			
139. From Sale of Real Estate, etc...			
Total for Sinking Funds.....	\$112,304 50		\$112,304 50
		Temporary Accounts	
8. AGENCY, TRUST, AND INVESTMENT TRANSACTIONS			
Agency			
140. Taxes			
a. State		\$427,828 72	
b. Non-resident Bank.....		206,180 73	
c. County			
141. Liquor Licenses Remitted to the State			
142. Abolition of Grade Crossings...			
143. All Other			
a. City Clerk Agency		4,805 70	
b. Investigation Rapid Transit in Dorchester		504 93	
Trust			
144. Perpetual Care Funds.....		9,685 78	
145. Other Permanent Public Trust Funds			
146. Income Invested.....			
147. Private Trust Funds and Ac- counts		75,473 76	
Investment			
148. Sinking Fund Securities.....			
149. Investment Fund Securities.....			
Total for Agency, Trust, and Investment Transactions		\$724,479 62	\$724,479 62
Total forward.....			\$11,392,652 08

Schedule A-IV—Continued

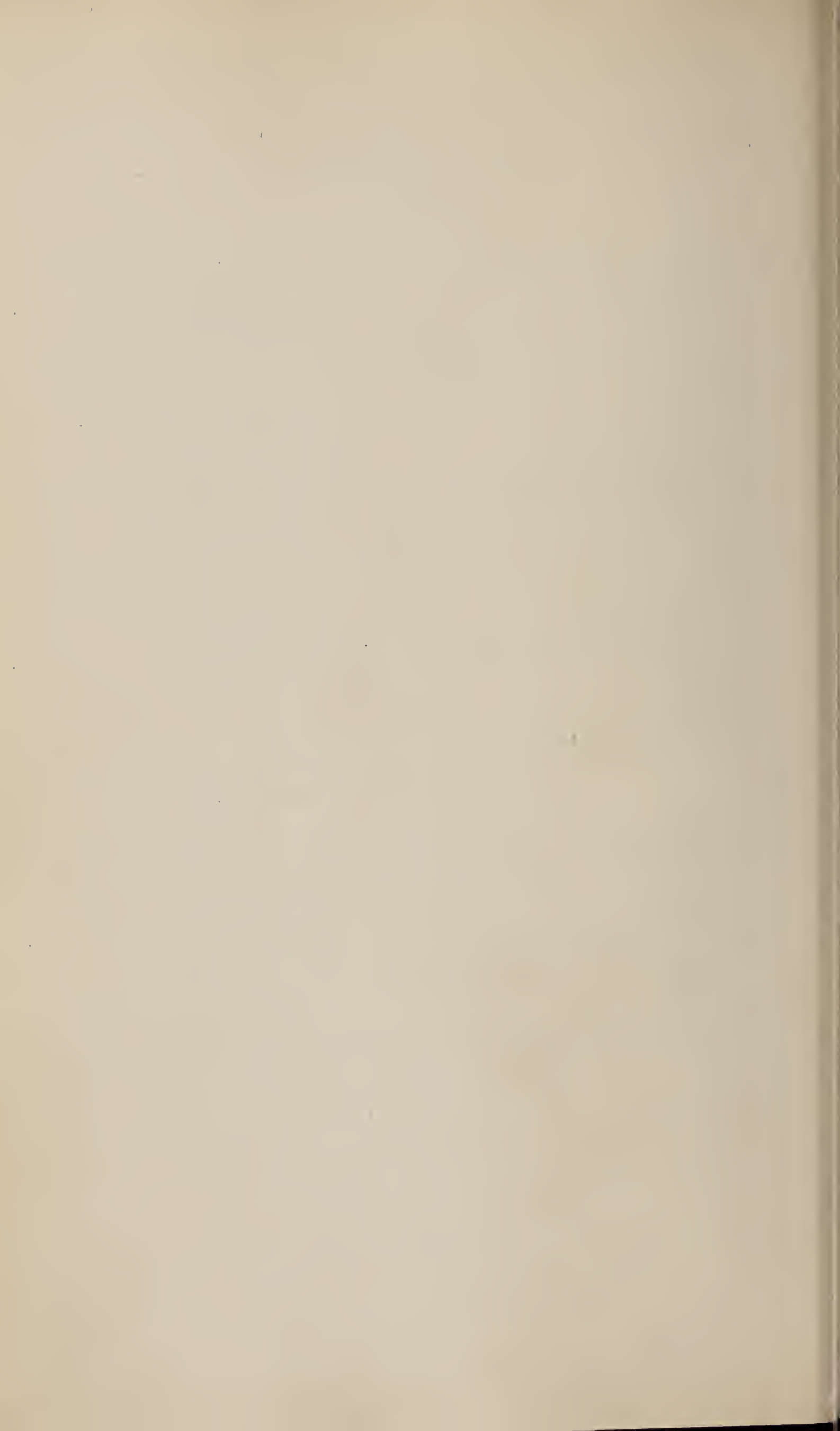
RECEIPTS

SOURCES OF RECEIPTS		Temporary Accounts and Cash Balances	Total
Total forward.....			\$11,381,418 69
16. REFUNDS			
142. Taxes		\$13,079 84	
143. Licenses			
144. Special Assessments.....		166 32	
145. General Departments.....		593 68	
146. Public Service Enterprises.....		948 46	
147. Cemeteries		65 00	
148. Accrued Interest.....		1,152 56	
149. All Other.....		547 98	
Total Refunds.....		\$16,553 84	\$16,553 84
17. TRANSFERS			
150. Departmental			
a. Treasury from Water Dept.....		\$1,500 00	
b. Law from Water Dept.....		1,000 00	
c. Telephone Exchange from Wa- ter Dept.....		423 25	
d.			
e.			
f.			
g.			
h.			
i.			
j.			
Total Transfers		\$2,923 25	\$2,923 25
18. BALANCES			
151. State Auditor's Adjustment, Guaranty Trust Co. Acc't.		\$107 53	
152. Sinking Fund			
153. Investment Fund.....			
154. Perpetual Care Fund.....			
155. Other Public Trust Fund.....			
156. Private Trust Funds and Ac- counts			
Total Cash on Hand Beginning of Year		\$295,498 00	\$295,605 53
Grand Total Receipts and Cash on Hand			\$11,696,501 31

Schedule A-IV—Continued

PAYMENTS

OBJECTS OF PAYMENTS	Temporary Accounts and Cash Balances	Total
Total forward.....		\$11,392,652 08
9. REFUNDS		
150. Taxes	\$13,079 84	
151. Licenses		
152. Special Assessments.....	166 32	
153. General Departments.....	593 68	
154. Public Service Enterprises.....	948 46	
155. Cemeteries	65 00	
156. Accrued Interest.....	1,152 56	
157. All Other.....	547 98	
Total Refunds.....	\$16,553 84	\$16,553 84
10. TRANSFERS		
158. Departmental		
a. Water to Treasury.....	\$1,500 00	
b. Water to Law.....	1,000 00	
c. Water to Telephone Exchange..	423 25	
d.		
e.		
f.		
g.		
h.		
i.		
j.		
Total Transfers	\$2,923 25	\$2,923 25
11. BALANCES		
159. General (Electrical Dept. Cash on hand).....	\$25 00	
160. State Auditor's Adjustment of Actual Cash as shown by cash on hand and in the banks Sept. 30, 1924		
161. Investment Fund	811 83	
162. Perpetual Care Fund.....		
163. Other Public Trust Fund.....		
164. Private Trust Funds and Accounts		
Total Cash on Hand End of Year..	\$283,535 31	\$284,372 14
Grand Total Payments and Cash on Hand		\$11,696,501 31



SCHEDULE A-V.

APPROPRIATIONS, RECEIPTS AND PAYMENTS CITY INCOME

DEPARTMENTAL:

- General Government.
- Protection of Life and Property.
- Health and Sanitation.
- Highways and Bridges.
- Charities.
- Soldiers' Benefits.
- Education.
- Libraries.
- Recreation.
- Unclassified.

PUBLIC SERVICE ENTERPRISES:

- Water Works.
- Cemeteries.

ADMINISTRATION OF INVESTED FUNDS.

INTEREST.

SINKING FUND.

ABATEMENTS, TAXES.

CITY INCOME

Statement in Detail of All Income, Taxes and Loans Received on Account
of the City of Cambridge During the Financial Year 1923-1924

TAXES

Taxes of 1923	\$4,034,253 37	
Taxes of 1922	595,609 37	
Taxes of 1921	201,830 58	
Taxes of 1920	2,293 11	
Taxes of 1919	246 35	
Taxes of 1918	162 00	
Taxes of 1917	16 45	
Taxes of 1916	37 25	
Total		\$4,834,448 48
From Commonwealth for City's proportion of tax on corporations		434,926 81
From Commonwealth for City's proportion of Income Tax....		243,640 45
Street Railway Tax		106,622 54
Income tax for School Fund.....		112,630 00

LICENSES AND PERMITS

Building permits	\$6,163 00	
Dance and amusement licenses.....	1,161 00	
Manufacturing, buying or dealing in denatured alcohol	91 00	
Guides' licenses	11 00	
Elevator licenses	117 75	
Electrical permits	7,429 85	
Fireworks (issued by Fire Chief).....	27 00	
Hawkers and peddlers (State)	50 00	
Boxing return (State)	85 69	
Manicuring and massaging	41 00	
Milk and vinegar.....	463 50	
Oleomargarine	50 00	
Licenses issued by Commissioner and City Clerk:		
Auctioneer	\$44 00	
Barrel collectors	34 50	
Druggists	42 00	
Firearms	4 00	
Gasoline, garage and inflammable liquid	1,486 00	
Intelligence office	57 00	
Junk store and collectors.....	1,160 00	
Lord's Day	892 00	
Marriages	1,704 00	
Pawnbroker	100 00	
Minors	6 25	
Pool and private bowling alleys..	136 00	
Second hand automobiles.....	1,325 00	
Slaughtering	3 00	
Stands	48 00	
Victuallers	1,135 00	
Wagon, carriage and drivers.....	172 50	
Peddler	700 00	
State licenses	850 00	
Skating Rink	50 00	
		9,949 25
Total		25,640 04
Amount carried forward		\$5,757,908 32

CITY AUDITOR

35

Amount brought forward \$5,757,908 32

COURT FINES

Fines from Third District Court \$15,539 19
 Fines from House of Correction..... 1,524 83

Total 17,064 02

DOG LICENSES FROM COUNTY

From County for Libraries..... 3,506 01

MOTH EXTERMINATION ASSESSMENTS

Moth assessments, 1923 \$765 93
 Moth assessments, 1922 156 59
 Moth assessments, 1921 84 23
 Moth assessments, 1920 1 00

Total 1,007 75

LAW DEPARTMENT

Legal advice and services of City Solicitor to
 Water Department 1,000 00

CITY CLERK'S DEPARTMENT

Mortgages, assignments, etc..... \$1,678 00
 Certificates from records 288 05
 Dog licenses 253 40
 Married women's certificates..... 5 75
 Business certificates 50 70
 Cemetery deed 7 25
 Physicians 5 50
 Hunting and fishing fees 117 60
 Sale of Ordinances 2 00
 Optometry 50

Total 2,408 75

ELECTION COMMISSIONER

Sale of waste paper 4 65

TREASURER'S DEPARTMENT

For sale:

Preparation \$347 00
 Advertising 511 60
 Deeds 540 00
 Recording 150 75
 Releases 125 00
 Certificates of liens 726 00
 Affidavits 132 50
 Posting 345 50
 Demand 186 75
 Examination of title 111 00
 Statutory fee 51 00
 Taxes—Summonses 1,773 00
 Services of department in collection of water
 water rates, etc. 1,500 00

Total 6,500 10

Amount carried forward..... \$5,789,399 60

Amount brought forward \$5,789,399 60

POSTAGE AND STATIONERY

For stationery furnished to Water Department.. 108 01

MUNICIPAL BUILDINGS

Sale of:

Ordinances	\$83 55
Waste paper, etc.	15 03
Rent of land on Portland Street.....	250 00
Rent of land on Bennett Street.....	270 00
Rent of Legion Headquarters.....	1 00
Rent of Brattle Square Building.....	102 00

Total 721 58

FIRE DEPARTMENT

Sale of:

Old ladder truck.....	\$100 00
Empty oil barrel.....	1 00

Total 101 00

POLICE DEPARTMENT

For services of officers.....	\$4,830 00
For damages to cell.....	5 00

Total 4,835 00

SEALER OF WEIGHTS AND MEASURES

Fees for sealing..... 915 88

FORESTRY

Removal of trees..... 131 14

HEALTH DEPARTMENT

For board at Tuberculosis Hospital:

Sundry persons.....	\$3,753 00
Other cities and towns.....	7,634 50
Commonwealth of Massachusetts	8,549 95
United States Veteran's Bureau	1,011 00

20,948 45

Other contagious diseases:

Sundry persons.....	\$2,546 00
Other cities and towns.....	1,082 50
Commonwealth of Massachusetts	3,982 50

7,611 00

Care of rabies:

Sundry persons.....	162 00
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School dentist:

Registration	209 40
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Total 28,930 85

Amount carried forward..... \$5,825,143 06

CITY AUDITOR

37

Amount brought forward..... \$5,825,143 06

MUNICIPAL HOSPITAL

For board from sundry persons..... 40,740 58

SEWER MAINTENANCE

For:

Labor and use of pump.....	\$2,574 36
Miscellaneous	19 45
Labor for Lever Brothers.....	2,418 03

Total	5,011 84
-------------	----------

INCINERATOR

Sundry persons..... 1,044 72

HOUSE OFFAL

For sale of offal..... 12,218 99

STREET DEPARTMENT

For rent of track.....	\$50 00
Use of signboard.....	150 00
Manure	272 45
Repairing streets.....	1,358 95
Cement, sand, tar, etc.....	10 30
Damages	66 25
Granite blocks, bricks, etc.....	60 80
Junk, etc.....	94 45

Total	2,063 20
-------------	----------

SIDEWALKS AND DRIVEWAYS

For constructing driveways, etc..... 3,489 25

CITY HOME

For board:

Sundry persons.....	\$4,244 38
Cities and towns.....	582 00
Sale of bones, grease, etc.....	43 21
Sale of farm produce.....	1,473 01

Total	6,342 60
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OUTSIDE AID

For reimbursements:

From cities and towns.....	\$9,144 86
From Commonwealth.....	6,865 28
From individuals.....	538 85
Mothers' aid from Commonwealth.....	46,467 37
Mothers' aid from cities and towns.....	4,599 35

Total	67,615 71
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Amount carried forward..... \$5,963,669 95

Amount brought forward..... \$5,963,669 95

SOLDIERS' BENEFITS

From Commonwealth of Massachusetts:

State aid.....	\$6,336 00
Military aid.....	3,546 75
Burials	180 00

Total	10,062 75
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SCHOOL DEPARTMENT

From Commonwealth of Mass. for Americani-
zation

\$4,359 26

Vocational schools..... 20,631 70

Minor wards..... 3,704 62

Sight-saving class 1,250 00

Tuition of minor wards, City of Boston..... 543 68

Tuition of non-resident pupils:

At High schools..... \$896 00

Rindge Technical school..... 525 00

Elementary schools..... 120 00

Continuation schools..... 3,967 38

Practical Arts..... 33 20

Rindge Evening Industrial school..... 46 50

5,588 08

Forfeit of deposit for non-attendance at Evening
School

102 00

Sale of text books and supplies..... 543 08

Sale of food at high school lunch..... 13,050 23

Sale of food at Continuation and Trade schools... 35 31

Use of halls for rallies, etc..... 76 00

Miscellaneous 989 44

Refund of salary..... 185 00

Minor licenses..... 42 75

Total	51,101 15
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SCHOOL BATHS

Sale of soap, and use of towels.....	355 08
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LIBRARIES

Fines, rentals, etc.....	2,036 06
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PARK DEPARTMENTS—RENTS, ETC.

For use of Russell Field.....	\$2,325 00
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For land outside of Russell Field.....	187 00
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Rent of Rindge Field.....	25 00
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Use of towels:

Rindge Field..... \$114 91

Cambridge Field 282 92

397 83

Miscellaneous	145 66
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Total	3,080 49
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Amount carried forward.....	\$6,030,305 48
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CITY AUDITOR

39

Amount brought forward..... \$6,030,305 48

TELEPHONE EXCHANGE

Receipts from the Water Department..... 423 25

PENSIONS

Receipts from the Water Department..... 9,681 84

GRANTS AND GIFTS

Harvard College, contributions towards purchase
of Fire Apparatus..... 5,000 00

AMERICANIZATION OF FOREIGN BORN

From Commonwealth of Massachusetts..... 540 02

WATER DEPARTMENT

Meter rates \$353,754 39

Annual rates..... 111,100 25

Miscellaneous bills:

Off and on..... \$82 00

Supply 11,253 69

Seals 31 25

Rent 1,166 90

Maintenance 7,705 66

Maintenance building..... 213 00

Supply cleaning..... 4,759 95

Setting meters..... 1,917 95

Supply renewals..... 8,207 98

35,338 38

Total 500,193 02

CEMETERY DEPARTMENT

For sale of lots and graves..... \$24,586 17

Burials, care, etc..... 18,232 19

Interest on Perpetual Care Fund..... 6,215 33

Perpetual care..... 9,685 78

Miscellaneous 14 00

Total 58,733 47

INTEREST

On Deposits \$8,559 19

Taxes 75,380 66

Special Assessments 368 86

Sidewalk Assessments (Committed interest).... 216 35

Sewer Assessments (Committed interest)..... 146 58

Accrued interest 1,152 56

Total 85,824 20

Amount carried forward..... \$6,690,701 28

Amount brought forward..... \$6,690,701 28

RENT OF LAND—HARVARD COLLEGE

In lieu of taxes 2,400 00

SMITH-HUGHES FUND

From the State to the School Department..... 1,760 16

SPECIAL RECEIPTS

SEWER ASSESSMENTS

Unapportioned Assessments	\$4,936 52	
Apportioned, 1923	200 30	
Apportioned, 1922	285 68	
Total		5,422 50

EDGESTONES AND SIDEWALKS

Unapportioned assessments	\$14,685 81	
Apportioned, 1923 ..	2,608 74	
Apportioned, 1922	403 17	
Apportioned, 1921	77 25	
Total		17,774 97

CONSTRUCTION FIRST STREET BRIDGE

From Water Department for raising manhole siphons..... 25 80

PREMIUM ACCOUNT

For premium on Municipal Bonds 1,614 22

RECEIPTS FROM LOANS

Street loans	\$379,000 00	
Sewer construction general	30,000 00	
Sewer separate system	75,000 00	
Schoolhouse	80,000 00	
First Street bridge	26,000 00	
Departmental equipment	85,000 00	
Building	18,000 00	
Total		693,000 00

TEMPORARY LOANS

In anticipation of taxes 3,400,000 00

COMMISSIONERS OF THE SINKING FUNDS

Park loan	\$360,000 00	
Street loan	16,000 00	
School loan	80,000 00	
Harvard Bridge	92,800 00	
Building	3,000 00	
Total		551,800 00

Amount carried forward.....\$11,364,498 93

Amount brought forward.....\$11,364,498 93

TAX LIEN

Sundry persons 32,303 36

CITY CLERK'S AGENCY ACCOUNT

Dogs	\$3,125 60	
Hunting	653 05	
Fishing	300 05	
Alien Fishing	12 95	
Alien Hunting	14 85	
Trapping	93 15	
Non-resident Combination	1.85	
Total		4,201 50
To cash on hand April 1, 1923		295,498 00
Total		\$11,696,501 79

RECEIPTS FROM SUNDRY DEPARTMENT REFUNDS

City Council	\$46 06	
Treasury	6 17	
Assessors	2 50	
Election Commission	15 00	
Fire	6 34	
Health	2 14	
Tuberculosis Hospital	18 29	
Street Maintenance	12 41	
City Home	13 59	
Public Welfare B.	92 00	
Public Welfare—Care of Persons.....	2,369 42	
Public Welfare—Mothers' Aid	471 00	
Soldiers' Relief	767 00	
School	381 27	
Library	63 90	
Park Maintenance	3 00	
Park Recreation	11 39	
Celebrations	40 03	
Water Maintenance General	21 37	
Interest	127 50	
Street Construction—Main Street	51 00	
Pensions	121 51	
Total		\$4,642 89

PAYMENTS

GENERAL GOVERNMENT

CITY COUNCIL EXPENSES

Personal Service:		
Salaries of Councillors.....	\$7,500 00	
Service Other Than Personal:		
Printing and binding.....	\$1,537 02	
Postage	210 25	
Advertising and posting.....	1,102 82	
Transportation of persons.....	2,562 72	
Cartage and freight.....	81	
Communication	42 32	
Medical	40 00	
Expert and architect.....	115 33	
Stenographic, copying, indexing..	51 16	
Fees, service of venires, etc.....	771 99	
Photographic and blueprinting....	30 42	
	<hr/>	6,464 84
Supplies:		
Office	\$702 30	
Food and ice.....	557 53	
Supplies not otherwise coded.....	17 81	
	<hr/>	1,277 64
Incidental Expenditures:		
Funerals, refreshments, etc.....	\$977 70	
Clean-Up and Paint-Up Week.....	237 99	
	<hr/>	1,215 69
	<hr/>	\$16,458 17

CLERK OF COMMITTEES' DEPARTMENT

Personal Service:		
Permanent employees	\$6,200 50	
Service Other Than Personal:		
Printing and binding.....	\$32 58	
Postage	24 00	
Communication	211 62	
	<hr/>	268 20
Supplies:		
Office	122 97	
	<hr/>	6,591 67

EXECUTIVE DEPARTMENT

Personal Service:		
Permanent and temporary employees.....	\$13,145 00	
* Service Other Than Personal:		
Postage	\$124 66	
Rent, taxes and water.....	161 70	
Communication	380 93	
Motor vehicles repairs and care..	125 09	
Fees, service of venires, etc.....	15 00	
	<hr/>	807 38
Amounts carried forward.....	\$13,952 38	\$23,049 84

General Government—Continued

Amounts brought forward.....	\$13,952 38	\$23,049 84
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EXECUTIVE DEPARTMENT—Concluded

Supplies:

Office	\$389 69	
Food and ice.....	52 43	
Motor vehicle	294 73	
	<hr/>	736 85

Incidental Expenditures:

Entertainment	208 86	
	<hr/>	14,898 09

AUDITING DEPARTMENT

Personal Service:

Permanent and temporary employees.....	\$9,247 00
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Service Other Than Personal:

Printing and binding.....	\$443 73	
Postage	88 62	
Communication	84 88	
Services not otherwise coded.....	14 72	
	<hr/>	631 95

Supplies:

Office	\$1,787 35	
Food and ice.....	44 10	
	<hr/>	1,831 45
	<hr/>	11,710 40

TREASURER'S AND COLLECTOR'S DEPARTMENT

Personal Service:

Permanent and temporary employees.....	\$25,582 47
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Service Other Than Personal:

Printing and binding	\$63 09	
Postage	1,704 95	
Advertising and posting.....	531 20	
Transportation of persons.....	644 94	
Cartage and freight.....	82	
Premium on surety bond.....	299 00	
Communication	465 57	
Fees, service of venires, etc.....	3,173 93	
	<hr/>	6,889 50

Equipment:

Office	63 21
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Supplies:

Office	\$2,200 41	
Food and ice.....	56 89	
	<hr/>	2,257 30
	<hr/>	34,792 48

Amount carried forward.....	\$84,450 81
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General Government—Continued

Amount brought forward..... \$84,450 81

ADMINISTRATION OF SINKING FUND

Personal Service:

Salary of Treasurer of Sinking Fund	\$300 00	
Salary of Secretary.....	300 00	
	<hr/>	\$600 00

Service Other Than Personal:

Rent of box.....	40 00	
	<hr/>	640 00

ASSESSORS' DEPARTMENT

Personal Service:

Permanent and temporary employees.....	\$20,584 48
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Service Other Than Personal:

Printing and binding.....	\$165 13	
Postage	61 51	
Advertising and posting.....	80 85	
Transportation of persons.....	746 07	
Cartage and freight.....	5 10	
Communication	211 62	
	<hr/>	1,270 28

Equipment:

Office	324 67
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Supplies:

Office	\$1,119 88	
Food and ice.....	63 88	
	<hr/>	1,183 76

23,363 19

LICENSE COMMISSION

Personal Service:

Permanent and temporary employees	\$3,468 10	
Inspector of Junk Shops and Garages	1,500 00	
	<hr/>	\$4,968 10

Service Other Than Personal:

Postage	\$18 00	
Communication	117 02	
	<hr/>	135 02

Supplies:

Office	\$235 82	
Supplies not otherwise coded.....	29 40	
	<hr/>	265 22

5,368 34

Amount carried forward..... \$113,822 34

General Government—Continued

Amount brought forward..... \$112,822 34

CITY CLERK'S DEPARTMENT

Personal Service:

Permanent and temporary employees..... \$12,902 00

Service Other Than Personal:

Printing and binding.....	\$131 09	
Postage	64 00	
Transportation of persons.....	15 00	
Premium on surety bond.....	24 00	
Communication	211 62	
Fees, service of venires, etc.....	921 00	
		<u>1,366 71</u>

Supplies:

Office	\$853 64	
Food and ice.....	54 88	
		<u>908 52</u>
		<u>15,177 23</u>

CITY MESSENGER'S DEPARTMENT

Personal Service:

Permanent employees \$3,456 00

Service Other Than Personal:

Postage	\$46 32	
Transportation of persons.....	10 00	
Communication	253 94	
Expert and architect.....	4 90	
		<u>315 00</u>

Supplies:

Office	157 06	
		<u>3,928 22</u>

LAW DEPARTMENT

Personal Service:

Permanent and temporary employees..... \$5,160 00

Service Other Than Personal:

Postage	\$57 00	
Transportation of persons.....	65 19	
Rent, taxes and water.....	687 50	
Communication	68 75	
Stenographic, copying, indexing..	21 50	
Fees, service of venires, etc.....	2,827 07	
Photographic and blueprinting....	52 58	
		<u>3,779 59</u>

Supplies:

Office	493 03	
		<u>9,432 62</u>

Amount carried forward..... \$142,360 41

General Government—Continued

Amount brought forward \$142,360 41

ELECTION COMMISSION

Personal Service:

Permanent and temporary employees..... \$16,873 18

Service Other Than Personal:

Printing and binding	\$6,573 54	
Postage	167 10	
Advertising and posting	388 08	
Transportation of persons	242 06	
Cartage and freight	615 44	
Rent, taxes and water	400 00	
Communication	62 35	
Service not otherwise coded.....	1,230 17	
		9,678 74

Equipment:

Office	\$107 05	
Equipment not otherwise coded....	220 20	
		327 25

Supplies:

Office	\$1,008 13	
Food and ice	59 87	
Laundry, cleaning, toilet.....	9 88	
Supplies not otherwise coded.....	85 58	
		1,163 46

28,042 63

ENGINEERING DEPARTMENT

Personal Service:

Permanent employees \$12,194 00

Service Other Than Personal:

Printing and binding	\$19 60	
Postage	1 00	
Transportation of persons	388 50	
Cartage and freight	25	
Communication	211 62	
		620 97

Supplies:

Office	185 55	
		13,000 52

13,000 52

SUMMARY—EXPENDED

For highways	\$2,348 48
Assessors' plans	1,208 39
Law Department	288 76
Parks	60 37
Bridges	853 54
Cemetery	342 42
Sidewalks	53 68
Sewers	1,288 11
Water	55 59

Amounts carried forward	\$6,499 34	\$183,403 56
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General Government—Continued

Amounts brought forward \$6,499 34 \$183,403 56

ENGINEERING DEPARTMENT—Concluded

SUMMARY—EXPENDED—Concluded

General Engineering:

Accounts	\$648 94	
Location plans	224 25	
Unclassified	1,321 47	
City Engineer	3,500 00	
	<hr/>	5,694 66
		<hr/>
		\$12,194 00

INSPECTION OF BUILDINGS

Personal Service:

Permanent employees \$14,990 50

Service Other Than Personal:

Printing and binding	\$13 47	
Postage	44 48	
Transportation of persons	700 00	
Communication	211 62	
Motor vehicle repairs and care...	222 77	
Expert and architect	104 00	
Fees, service of venires, etc.	24 00	
Service not otherwise coded.....	65 05	
	<hr/>	1,385 39

Supplies:

Office	\$349 37	
Food and ice	47 04	
Motor vehicle	428 48	
	<hr/>	824 89

17,200 78

CIVIL SERVICE LABOR REGISTRATION

Personal Service:

Permanent employee \$500 00

Supplies:

Office	18 45	
	<hr/>	

518 45

MUNICIPAL BUILDINGS

Personal Service:

Permanent and temporary employees \$21,692 00

Service Other Than Personal:

Light and power.....	\$4,069 39	
Boiler inspection	24 00	
Service not otherwise coded.....	5,257 89	
	<hr/>	9,351 28

Amounts carried forward \$31,043 28 \$201,122 79

General Government—Concluded

Amounts brought forward.....	\$31,043 28	\$201,122 79
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MUNICIPAL BUILDINGS—Concluded

Equipment:

Equipment not otherwise coded.....	953 94
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Supplies:

Fuel	\$6,315 32	
Laundry, cleaning, toilet.....	348 07	
Chemicals and disinfectants.....	33 36	
Supplies not otherwise coded.....	854 70	
	<u>7,551 45</u>	
		39,548 67

PROTECTION OF LIFE AND PROPERTY

POLICE DEPARTMENT

Personal Service:

Salaries and wages.....	\$377,482 08
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Service Other Than Personal:

Printing and binding.....	\$431 50	
Postage	100 00	
Transportation of persons.....	736 10	
Light and power.....	1,429 25	
Communication	879 88	
Motor vehicle repairs and care....	1,018 13	
Fees, service of venires, etc.....	18 00	
Photographic and blueprinting....	129 94	
Service other than personal.....	83 46	
	<u>4,826 26</u>	

Equipment:

Motor vehicles	\$484 61	
Office	236 78	
Tools and instruments.....	454 62	
Equipment not otherwise coded....	55 87	
Regalia	245 21	
	<u>1,477 09</u>	
New automobile	690 74	

Supplies:

Office	\$1,407 77	
Food and ice.....	189 68	
Medical, surgical, laboratory.....	14 21	
Laundry, cleaning, toilet.....	108 31	
Motor vehicle	1,562 83	
Supplies not otherwise coded.....	3,283 91	
	<u>6,566 71</u>	
		391,042 88

POLICE—CATCHING STRAY DOGS

To Animal Rescue League.....	\$257 25	
		<u>257 25</u>
Amount carried forward.....		\$631,971 59

Protection of Life and Property—Continued

Amount brought forward..... \$631,971 59

FIRE DEPARTMENT

Personal Service:

Salaries and wages..... \$321,015 31

Service Other Than Personal:

Printing and binding.....	\$17 15	
Postage	10 00	
Advertising and posting.....	6 86	
Cartage and freight.....	9 71	
Light and power.....	761 51	
Communication	110 85	
Motor vehicle repairs and care....	1,323 31	
Fees, service of venires, etc.....	28 00	
Service not otherwise coded.....	904 48	
Horseshoeing and clipping.....	94 86	
		3,266 73

Equipment:

Motor vehicles	\$1,630 00	
Furniture and fittings.....	37 00	
Wearing apparel	4 41	
		1,671 41

Supplies:

Office	\$428 13	
Food and ice.....	90 90	
Fuel	7,136 27	
Forage and animal.....	209 07	
Laundry, cleaning, toilet.....	1,099 66	
Motor vehicle	1,858 61	
Chemicals and disinfectants.....	243 86	
Supplies not otherwise coded.....	3,190 82	
Motor supplies and parts.....	774 20	
		15,031 52

340,984 97

ELECTRICAL DEPARTMENT

Personal Service:

Permanent and temporary employees..... \$33,741 56

Service Other Than Personal:

Printing and binding.....	\$9 80	
Postage	30 00	
Transportation of persons.....	534 99	
Cartage and freight.....	33 78	
Light and power.....	294 63	
Rent, taxes and water.....	114 68	
Communication	165 01	
Motor vehicle repairs and care....	119 95	
Fees, service of venires, etc.....	34 00	
Service not otherwise coded.....	15 68	
		1,352 52

Amounts carried forward..... \$35,094 08 \$972,956 56

Protection of Life and Property—Continued

Amounts brought forward..... \$35,094 08 \$972,956 56

ELECTRICAL DEPARTMENT—Concluded

Equipment:

Apparatus, cable wire, etc.....	\$319 93	
Electrical	359 74	
Tools and instruments.....	15 01	
	<hr/>	694 68

Supplies:

Office	\$328 80	
Food and ice.....	50 00	
Laundry, cleaning, toilet.....	13 00	
Motor vehicle	1,133.48	
Supplies not otherwise coded.....	832 69	
	<hr/>	2,357 97
		<hr/>
		38,146 73

ELECTRICAL DEPARTMENT—FIRE ALARM BOXES

For fire alarm boxes..... 660 00

PARK DEPARTMENT—FORESTRY

Personal Service:

Temporary employees \$14,840 30

Service Other Than Personal:

Advertising and posting.....	\$10 78	
Hire of teams and auto trucks....	411 97	
Motor vehicle repairs and care....	99 11	
Service not otherwise coded.....	47 69	
	<hr/>	569 55

Supplies:

Office	\$24 99	
Agricultural	650 72	
Motor vehicle	71 34	
Chemicals and disinfectants.....	480 68	
Supplies not otherwise coded.....	289 31	
	<hr/>	1,517 04
		<hr/>
		16,926 89

SEALER OF WEIGHTS AND MEASURES

Personal Service:

Permanent and temporary employees..... \$7,600 00

Service Other Than Personal:

Printing and binding.....	\$70 32	
Postage	10 00	
Advertising and posting.....	7 84	
Transportation of persons.....	93 50	
Communication	29 11	
Motor vehicle repairs and care....	123 28	
Stenographic, copying, indexing..	1 47	
Fees, service of venires, etc.....	20 00	
	<hr/>	355 52

Amounts brought forward..... \$7,955 52 \$1,028,690 18

Protection of Life and Property—Concluded

Amounts brought forward..... \$7,955 52 \$1,028,690 18

SEALER OF WEIGHTS AND MEASURES—Concluded

Equipment:

Tools and instruments 45 40

Supplies:

Office \$70 41

Motor vehicle..... 598 34

Supplies not otherwise coded..... 73 67

742 42

8,743 34

GAME WARDEN

Personal Service:

Salary of game warden \$50 00

50 00

MILITIA, USE OF RIFLE RANGE

Use of Rifle Range at Wakefield by:

Company C, 101st Engineers..... \$192 00

Headquarters & Service Company, 101st
Engineers 124 00

316 00

POLE AND CONDUIT COMMISSION

Service Other Than Personal:

Printing and binding..... \$19 15

Postage 10 00

Advertising and posting..... 30 85

\$60 00

Supplies:

Office 2 20

62 20

HEALTH AND SANITATION

BOARD OF HEALTH

Personal Service:

Medical inspectors..... \$2,700 00

Bacteriologist 1,200 00

Sanitary inspectors..... 8,011 92

Inspector of provisions and
slaughtering 3,545 00

Housing inspector..... 2,100 00

Office employees..... 5,008 00

Social workers..... 1,320 00

Drivers 3,012 11

School physicians and school
nurses 18,202 99

Infant welfare nurses..... 5,479 03

T. B. Dispensary physicians and
nurses 3,550 00

Contagious nurses..... 2,921 25

Culture collector..... 300 00

\$57,350 30

Amounts carried forward..... \$57,350 30 \$1,037,861 72

Health and Sanitation—Continued

Amounts brought forward..... \$57,350 30 \$1,037,861 72

BOARD OF HEALTH—Concluded

Service Other Than Personal:		
Printing and binding.....	\$193 72	
Postage	372 20	
Advertising and posting.....	26 16	
Transportation of persons.....	2,300 75	
Rent, taxes, and water.....	363 66	
Communication	353 44	
Motor vehicle repairs and care....	307 08	
Care of persons.....	31,288 74	
Removal of ashes, dirt, garbage....	4 00	
Fees, service of venires, etc.....	33 80	
Service not otherwise coded.....	634 13	
	<hr/>	35,877 68
Equipment:		
Office		49 00
Supplies:		
Office	\$800 62	
Food and ice.....	126 66	
Medical, surgical, laboratory.....	318 64	
Motor vehicle.....	431 68	
Chemicals and disinfectants.....	189 69	
Supplies not otherwise coded.....	48 86	
School inspection.....	151 55	
Infant welfare.....	766 53	
	<hr/>	2,834 23
		<hr/>
		96,111 21

HEALTH—CHICK-TESTING AND DIPHTHERIA IMMUNIZATION

Personal Service:		
Permanent employees.....	\$1,500 00	
Service Other Than Personal:		
Advertising and posting.....	253 48	
Supplies:		
Office	\$47 72	
Medical, surgical, laboratory.....	195 80	
	<hr/>	243 52
		<hr/>
		1,997 00

HEALTH DEPARTMENT—TUBERCULOSIS HOSPITAL

Personal Service:		
Permanent and temporary employees.....	\$23,686 56	
Service Other Than Personal:		
Postage	\$32 88	
Cartage and freight.....	15 11	
Light and power.....	102 18	
Communication	111 71	
Medical	8 00	
Service not otherwise coded.....	101 68	
	<hr/>	371 56
		<hr/>
Amounts carried forward.....	\$24,058 12	\$1,135,969 93

Health and Sanitation—Continued

Amounts brought forward \$24,058 12 \$1,135,969 93

HEALTH DEPARTMENT—TUBERCULOSIS HOSPITAL—Concluded

Supplies:

Office	\$38 22		
Food and ice	18,120 72		
Fuel	7,556 24		
Medical, surgical, laboratory	1,241 33		
Laundry, cleaning, toilet.....	385 40		
Agricultural	12 74		
Chemicals and disinfectants.....	40 93		
Supplies not otherwise coded.....	795 90		
Engine and fire room supplies.....	712 60		
Bedding	398 91		
		29,302 99	
			53,361 11

HEALTH—INSPECTION OF MILK AND VINEGAR

Personal Service:

Permanent employees \$3,000 00

Service Other Than Personal:

Postage	\$21 16	
Rent, taxes and water.....	117 60	
Motor vehicle repairs and care...	124 24	
Fees, service of venires, etc.	12 00	
		275 00

Equipment:

Medical, surgical, laboratory 241 57

Supplies:

Office	\$73 84		
Medical, surgical, laboratory.....	120 19		
Laundry, cleaning, toilet.....	10 03		
Motor vehicle	197 28		
		401 34	
			3,917 91

HEALTH—INSPECTION OF ANIMALS

Personal Service:

Salary of inspector \$1,700 00

Service Other Than Personal:

Transportation of persons 450 00

Supplies:

Medical, surgical, laboratory.....	299 96	
		2,449 96

HEALTH—SCHOOL DENTIST

Personal Service:

Permanent employees \$5,480 00

Supplies:

Office	\$36 52		
Food and ice	262 17		
		298 69	
			5,778 69

Amount carried forward..... \$1,201,477 60

Health and Sanitation—Continued

Amount brought forward \$1,201,477 60

SEWER MAINTENANCE

Personal Service:

Permanent and temporary employees..... \$32,024 72

Service Other Than Personal:

Postage	\$3 00	
Advertising and posting	31 36	
Transportation of persons	30 00	
Cartage and freight	7 18	
Hire of teams and auto trucks....	391 00	
Light and power.....	9 97	
Rent, taxes and water.....	98 00	
Communication	66 61	
Motor vehicle repairs and care....	1,993 15	
Medical	44 00	
Fees, service of venires, etc.....	26 00	
Service not otherwise coded.....	396 74	
		3,097 01

Equipment:

Motor vehicles	\$431 73	
Tools and instruments	32 02	
Wearing apparel	96 43	
Equipment not otherwise coded..	375 09	
		935 27

Supplies:

Office	\$28 92	
Fuel	230 30	
Motor vehicle	3,151 17	
Supplies not otherwise coded.....	63 93	
		3,474 32

Materials:

Sewer	449 05	
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Special Items:

Workingmen's compensation	187 45	
		40,167 82

SUPPRESSION OF FLIES AND MOSQUITOES

Personal Service:

Temporary employees	\$2,080 86	
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Service Other Than Personal:

Hire of teams and auto trucks	645 00	
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Equipment:

Wearing apparel	17 64	
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Supplies:

Motor vehicle	\$59 14	
Supplies not otherwise coded.....	196 57	
		255 71

2,999 21

Amount carried forward..... \$1,244,644 63

Health and Sanitation—Concluded

Amount brought forward..... \$1,244,644 63

SEWER—TRENCH AT HOSPITAL

Personal Service:

Temporary employees \$374 49

Materials:

Sewer 125 51

500 00

Street Department—Sanitary Division

REFUSE AND GARBAGE DISPOSAL

Personal Service:

Permanent and temporary employees..... \$261,532 32

Service Other Than Personal:

Motor vehicle repairs and care.... \$2,683 30

Medical 1,382 01

Fees, service of venires, etc..... 26 00

Service not otherwise coded..... 941 40

5,032 71

Equipment:

Equipment not otherwise coded..... 121 91

Supplies:

Motor vehicle \$3,679 06

Supplies not otherwise coded..... 158 76

3,837 82

Special Items:

Workingmen's compensation 6,500 83

277,025 59

STREET—FOUNDATIONS IN CONNECTION WITH OFFAL
DISPOSAL TANKS

Contract for construction \$1,284 36

1,284 36

HIGHWAYS AND BRIDGES

STREET DEPARTMENT MAINTENANCE

Personal Service:

Permanent and temporary employees..... \$216,915 75

Service Other Than Personal:

Printing and binding..... \$211 87

Postage 128 08

Advertising and posting..... 116 50

Cartage and freight..... 25 19

Hire of teams and auto trucks..... 10,076 61

Light and power..... 405 52

Communication 211 62

Motor vehicle repairs and care.... 224 49

Medical 78 00

Testing materials and supplies... 15 68

Fees, service of venires, etc..... 108 00

Boiler inspection 20 00

Service not otherwise coded..... 760 46

12,382 02

Amounts carried forward..... \$229,297 77 \$1,523,454 58

Highways and Bridges—Continued

Amounts brought forward \$229,297 77 \$1,523,454 58

STREET DEPARTMENT MAINTENANCE—Concluded

Equipment:

Apparatus, cable, wire, etc.....	\$34 30	
Tools and instruments.....	257 96	
Live stock	2,450 00	
Wearing apparel	5 88	
Equipment not otherwise coded....	648 58	
		3,396 72

Supplies:

Office	\$361 68	
Food and ice.....	45 57	
Fuel	286 99	
Motor vehicle	5,313 89	
Supplies not otherwise coded.....	1,647 41	
		7,655 54

Materials:

Highway	\$13,126 22	
Bridges	945 17	
		14,066 39

Special Items:

Workingmen's compensation	\$1,742 38	
Contracts for construction where money is derived from taxes as per Schedule B.....	16,592 67	
Special road repairs.....	9,996 03	
		28,331 08

Discontinuation of Irving Street.....	888 05	
		283,635 55

STREET MAINTENANCE STABLE ACCOUNT

Personal Service:

Permanent and temporary employees.....	\$71,763 28
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Service Other Than Personal:

Light and power.....	\$764 46	
Communication	139 92	
Motorless vehicle repairs.....	24 01	
Medical	99 35	
Veterinary	42 50	
Service not otherwise coded.....	238 44	
		1,308 68

Supplies:

Food and ice.....	\$40 17	
Fuel	2,680 69	
Forage and animal.....	19,086 81	
Chemicals and disinfectants.....	14 44	
Supplies not otherwise coded.....	8,643 01	
		30,465 12

Special Items:

Workmen's compensation	591 03	
		104,128 11

Amount carried forward.....	\$1,911,218 24
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Highways and Bridges—Concluded

Amount brought forward..... \$1,911,218 24

BOSTON AND CAMBRIDGE BRIDGES

Personal Service:

Permanent and temporary employees..... \$18,920 83

Service Other Than Personal:

Printing and binding.....	\$42 01	
Transportation of persons.....	40 00	
Hire of teams and auto trucks....	166 75	
Light and power.....	2,862 21	
Communication	20 67	
Service not otherwise coded.....	6,418 19	
	<hr/>	9,549 83

Supplies:

Office	\$40 29	
Food and ice.....	13 85	
Fuel	170 62	
Supplies not otherwise coded.....	121 49	
	<hr/>	346 25

Materials:

Bridges	2,826 33	
	<hr/>	31,643 24

STREET LIGHTING

Service Other Than Personal:

Lighting streets, alleys, parks.....	\$83,336 63	
	<hr/>	83,336 63

CHARITIES

PUBLIC WELFARE—CITY HOME

Personal Service:

Permanent and temporary employees..... \$18,372 95

Service Other Than Personal:

Postage	\$15 00	
Advertising and posting.....	6 15	
Transportation of persons.....	503 90	
Light and power.....	573 58	
Communication	85 50	
Motorless vehicle repairs.....	13 56	
Religious	46 50	
Burial	167 00	
Service not otherwise coded.....	532 01	
Horseshoeing and clipping.....	50 00	
	<hr/>	1,993 20

Equipment:

Furniture and fittings.....	\$293 31	
Tools and instruments.....	4 34	
Wearing apparel	745 42	
	<hr/>	1,043 07

Amounts carried forward.....	\$21,409 22	\$2,026,198 11
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Charities—Continued

Amounts brought forward..... \$21,409 22 \$2,026,198 11

PUBLIC WELFARE—CITY HOME—Concluded

Supplies:

Office	\$19 03	
Food and ice	12,255 53	
Fuel	2,829 00	
Forage and animal.....	384 46	
Medical, surgical, laboratory.....	763 93	
Laundry, cleaning, toilet.....	177 96	
Agricultural	152 96	
Chemicals and disinfectants.....	110 00	
Tobacco	168 17	
Supplies not otherwise coded.....	883 61	
	<hr/>	17,744 65

Materials:

Building		267 05
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Special Items:

Care of dependents.....		724 50
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40,145 42

PUBLIC WELFARE—OUTSIDE AID

Personal Service:

Permanent and temporary employees.....	\$13,361 00	
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Service Other Than Personal:

Printing and binding	\$20 58	
Postage	40 00	
Transportation of persons.....	967 02	
Light and power.....	48 58	
Rent, taxes and water.....	117 60	
Communication	148 82	
Motor vehicle repairs and care....	98 18	
Care of persons.....	1,069 41	
Fees, service of venires, etc.....	10 00	
Burial	242 00	
Service not otherwise coded.....	44 57	
	<hr/>	2,806 76

Equipment:

Wearing apparel		481 04
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Supplies:

Office	\$296 71	
Food and ice.....	6,151 31	
Fuel	955 50	
Medical, surgical, laboratory.....	665 51	
Laundry, cleaning, toilet.....	10 98	
Motor vehicle	147 57	
Supplies not otherwise coded.....	18 50	
	<hr/>	8,246 08

Special Items:

Care of dependents	\$88,645 81	
Mothers' aid	95,667 92	
	<hr/>	184,313 73

209,208 61

Amount carried forward..... \$2,275,552 14

Charities—Concluded

Amount brought forward \$2,275,552 14

MUNICIPAL HOSPITAL

Personal Service:

Permanent and temporary employees..... \$48,347 99

Service Other Than Personal:

Postage	\$28 00	
Transportation of persons.....	30 00	
Cartage and freight	119 96	
Light and power	5,771 74	
Communication	745 78	
Cleaning	274 58	
Medical	628 50	
Examinations	100 00	
Fees, service of venires, etc.....	13 83	
Boiler inspection	10 00	
Service not otherwise coded.....	6,233 77	
		13,956 16

Equipment:

Furniture and fittings	\$194 04	
Office	200 65	
Medical, surgical, laboratory.....	24 50	
Wearing apparel	14 43	
		433 62

Supplies:

Office	\$960 84	
Food and ice	28,411 06	
Fuel	7,944 97	
Medical, surgical, laboratory	13,845 64	
Laundry, cleaning, toilet.....	1,597 82	
Supplies not otherwise coded.....	8,328 06	
		61,088 39

123,826 16

SOLDIERS' BENEFITS

STATE AID AND SOLDIERS' RELIEF

Personal Service:

Permanent and temporary employees..... \$6,562 00

Service Other Than Personal:

Printing and binding	\$19 60	
Postage	23 50	
Transportation of persons	84 62	
Communication	63 48	
Motor vehicle repairs and care...	107 93	
Care of persons.....	790 05	
Medical	192 99	
Fees, service of venires, etc.	10 00	
		1,292 17

Supplies:

Office	109 97	
Food and ice	54 88	
Motor vehicle	95 57	
		260 42

Amounts carried forward..... \$8,114 59 \$2,399,378 30

Soldiers' Benefits—Concluded

Amounts brought forward	\$8,114 59	\$2,399,378 30
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STATE AID AND SOLDIERS' RELIEF—Concluded

Special Items:

State and military aid, soldiers' relief and burials	61,682 03
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Incidental Expenditures:

Care of soldiers' graves	167 38	
	<hr/>	69,964 00

EDUCATION

SCHOOL COMMITTEE EXPENSES

For salary of Supt. and Asst. Supt. of Schools....	\$12,100 00
Other general administrative salaries.....	44,959 25
Teachers' salaries	1,111,848 73
General expenses	10,853 75
Text books and supplies	59,672 62
Tuition, industrial schools	8,974 97
Transportation of pupils	956 80
Supports of truants	235 99
Employees at High School Lunch.....	2,261 60
High school lunch supplies.....	11,803 97
Continuation school supplies.....	1,647 97
Maintenance of buildings and grounds.....	40,650 40
Fuel and light	41,093 71
Furnitures and furnishings	1,951 63
Other school expenses.....	3,682 23
Janitors' salaries	87,902 15
Minor licenses	39 75

Pensions:

Attendance officers	\$1,800 00
Agents	1,425 00
Janitors	2,712 60

	<hr/>	5,937 60
Americanization	6,817 00	
	<hr/>	1,453,390 12

HAGGERTY SCHOOL SHOWER BATHS

Personal Service:

Permanent employees.....	\$1,116 00
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Supplies:

Soap, towels, laundry.....	101 95	
	<hr/>	1,217 95

Amount carried forward.....	\$2,923,950 37
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Education—Concluded

Amount brought forward..... \$2,923,950 37

ROBERTS SCHOOL SHOWER BATHS

Personal Service:

Permanent employees..... \$2,106 00

Supplies:

Soap, towels, laundry..... 548 46

2,654 46

THORNDIKE SCHOOL SHOWER BATHS

Personal Service:

Permanent employees..... \$2,358 00

Supplies:

Soap, towels, laundry..... 705 13

3,063 13

LIBRARIES

CENTRAL LIBRARY AND BRANCHES

Personal Service:

Permanent and temporary employees..... \$41,043 02

Service Other Than Personal:

Printing and binding..... \$3,084 56
 Postage 266 60
 Transportation of persons..... 75 00
 Cartage and freight..... 49 91
 Hire of teams and auto trucks... 35 00
 Light and power..... 890 66
 Rent, taxes and water..... 239 84
 Insurance 469 78
 Communication 284 41
 Motor vehicle repairs and care.... 103 13
 Boiler inspection..... 10 00
 Service not otherwise coded..... 333 14

5,842 03

Equipment:

Electrical 39 98
 Motor vehicles..... 372 40
 Furniture and fittings..... 158 31
 Office 176 40

747 09

Supplies:

Office \$204 75
 Food and ice..... 116 86
 Fuel 1,260 39
 Library 9,999 08
 Laundry, cleaning, toilet..... 64 86
 Motor vehicle..... 109 22
 Supplies not otherwise coded..... 250 74

12,005 90

59,638 04

Amount carried forward..... \$3,989,306 00

Libraries—Concluded

Amount brought forward..... \$3,989,306 00

REPAIRS TO LIBRARY BUILDING

Service Other Than Personal:

Service not otherwise coded..... \$661 15

661 15

RECREATION

PARK MAINTENANCE GENERAL

Personal Service:

Permanent and temporary employees..... \$44,323 84

Service Other Than Personal:

Printing and binding..... \$42 63
 Postage 48 64
 Advertising and posting..... 43
 Transportation of persons..... 24 34
 Cartage and freight..... 1 48
 Hire of teams and auto trucks... 400 65
 Light and power..... 219 33
 Lighting streets, alleys and parks 1,328 49
 Rent, taxes and water..... 2 45
 Communication 367 96
 Motor vehicle repairs and care... 196 72
 Towing 132 30
 Fees, service of venires, etc..... 9 00
 Photographic and blueprinting... 6 37
 Service not otherwise coded..... 1,507 21

4,288 00

Equipment:

Motor vehicles..... 583 01

Supplies:

Office \$336 39
 Food and ice..... 55 61
 Fuel 879 73
 Laundry, cleaning, toilet 437 60
 Educational and recreational..... 44 10
 Agricultural 351 97
 Motor vehicle..... 534 69
 Supplies not otherwise coded..... 2,523 06

5,163 15

Materials:

Highway \$2,203 05
 Sewer 5 65

2,208 70

Special Items:

Workingmen's compensation 491 42

57,058 12

PARK—CURBING AT ROBERTS SCHOOL PLAYGROUND

Special Items:

Contract for construction..... \$696 20

696 20

Amount carried forward..... \$4,047,721 47

Recreation—Concluded

Amount brought forward..... \$4,047,721 47

PARK—REPAIRS TO IRON FENCE AROUND SOLDIERS'
MONUMENT, CAMBRIDGE COMMON

Special Items:

Contract for construction.....	\$373 00	
	<hr/>	373 00

PARK—RESURFACING THORNDIKE FIELD

Service Other Than Personal:

Avertising and posting.....	\$5 88	
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Supplies:

Agricultural	1,492 35	
	<hr/>	1,498 23

PARK—RECREATION—PLAYGROUNDS

Personal Service:

Permanent and temporary employees.....	\$21,683 .94	
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Service Other Than Personal:

Printing and binding.....	\$42 87	
Postage	17 00	
Transportation of persons.....	344 15	
Cartage and freight.....	26 32	
Light and power.....	109 61	
Rent, taxes and water.....	96 64	
Fees, service of venires, etc.....	2 00	
Photographic and blueprinting....	16 17	
Service not otherwise coded.....	360 14	
	<hr/>	1,014 90

Equipment:

Apparatus, cable, wire, etc.....	\$1,232 68	
Electrical	498 82	
Motor vehicles	677 98	
Educational and recreational.....	245 00	
	<hr/>	2,654 48

Supplies:

Office	\$534 79	
Medical, surgical, laboratory.....	10 91	
Educational and recreational.....	1,661 58	
Motor vehicle	157 23	
Supplies not otherwise coded.....	370 52	
	<hr/>	2,735 03

Incidental Expenditures:

Demonstration	296 29	
	<hr/>	28,384 64

UNCLASSIFIED

POSTAGE AND STATIONERY

For postage and supplies.....	\$970 65	
	<hr/>	970 65

Amount carried forward.....	\$4,078,947 99	
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Unclassified—Continued

Amount brought forward..... \$4,078,947 99

DAMAGES TO PERSONS AND PROPERTY

Execution of court:

Wm. Burns, attorney for Alfred Z. Tirrell	\$100 00	
Frederick S. Deitrick, attorney for Mary M. Kelley.....	500 00	
John F. Cusick, attorney for Whiting's Milk	90 00	
John F. Daly, attorney for Annie G. Howard.....	2,339 20	
Henry V. Cunningham, attorney for George Mason.....	200 00	
H. A. Leventhal, attorney for Flora Wassar	103 25	
Francis J. Roche, attorney for Ellen White	361 73	
L. L. Green, attorney for Mrs. Anthony	100 00	
Wm. W. Clarke, attorney for Florence Hatch	250 00	
Herbert M. Bridey, attorney for Mrs. A. S. Keating.....	500 00	
		\$4,544 18

Injuries from Defect in Sidewalks:

Clara Martin	\$50 00	
John H. O'Connor	65 00	
Richard Dwyer	40 00	
Mary E. O'Brien.....	50 00	
Mary Shea	300 00	
Teresa M. Powers.....	60 00	
Hannah Sheehan	125 00	
Minnie Scarborough	250 00	
Mrs. Robert Hunt.....	25 00	
Josephine Murphy	100 00	
Nora Hayes	75 00	
Mrs. Jeane David	75 00	
Celia Morley	125 00	
Bernard E. Turnquist	9 50	
Edith T. Hosmer	61 00	
Mary A. Sullivan.....	75 00	
		1,485 50

Injuries from Defect in Street:

Mary McSweeney	\$100 00
Susan Mullen	100 00
E. Lillian Chaffin.....	225 00
Margaret E. Cornrick	250 00
Edward Sheehan	15 00
Thomas F. Finigan.....	125 00
Sarah Idelson	75 00
Josephine C. Dillenschneider.....	200 00
Mary Pinardi	150 00
Mrs. J. M. Moriarty.....	100 00
Nellie Hennessey	50 00

Amounts carried forward..... \$1,390 00 \$6,029 68 \$4,078,947 99

Unclassified—Continued

Amounts brought forward \$1,390 00 \$6,029 68 \$4,078,947 99

Injuries from Defect in Street—Concluded

DAMAGES TO PERSONS AND PROPERTY—Concluded

Bessie M. Smith	75 00	
Mary Hall	250 00	
Ethel M. Rose	350 00	
		2,065 00

Damages from Defect in Street:

Eugene M. Flanagan	25 00	
Henry Roche	300 00	
John H. Shuckrowe	16 95	
John Lehan	8 80	
Joseph H. Ricker	50 00	
Michael F. Doyle	13 55	
Josephine Passonise	50 00	
Leslie Ainley	25 00	
Louis C. Gratton	7 00	
George G. Davis	22 15	
Wm. H. Steiner	10 00	
		528 45

Damages to Clothing:

Richard Nixon	35 00	
Michael Bresnan	25 00	
John T. Leahy	25 00	
John S. Daly	7 50	
James W. Carberry	7 50	
		100 00

Damages to Clothing while in Performance of Duty:

Cornelius P. Keane	12 50	
Joseph P. Breen	25 00	
John Walsh	12 50	
Patrick J. Ready	12 50	
Peter J. Lyons	40 00	
Wm. H. Daley	16 75	
Ethel M. Johnson	15 00	
Henry Pelletier	12 50	
		146 75

Damages to Property:

Boston & Maine	1 90	
John Babic	1,000 00	
Rose Bernstein	50 00	
John P. Gately	20 00	
Hyman Barber	20 00	
Catherine Cullinane	2 50	
Helen Taylor	25 00	
Denis Kelleher	4 00	
Antonio Pasquarello	3 00	
Mary M. Lehan	25 00	
Christina Curtin	25 00	
George E. Saunders	75 00	
Michael Harney	5 00	
Catherine Cronin	2 50	
James Hughes	500 00	
St. Mary's Catholic Association...	60 64	
Daniel Ballou	50 00	
		\$1,869 54

Amounts carried forward \$10,739 42 \$4,078,947 99

Unclassified—Continued

Amounts brought forward \$10,739 42 \$4,078,947 99

DAMAGES TO PERSONS AND PROPERTY—Concluded

Reimbursement of Counsel Fees:

Police Officer Jos. H. McCaffrey	50 00	
Police Officer Denis O'Brien.....	50 00	
		100 00

Injuries:

Chas. Latanowich, injury received by falling in voting booth on Norfolk Street	25 00	
Alice Vuilleumier, injury received by falling by reason of defect in Harvard Bridge	50 00	
Wm. H. O'Neil, injury received by falling by reason of defect in Harvard Bridge.....	100 00	
Edward C. Fitzgerald, injury received by walking into a projecting arm of a cement mixer which was not lighted on Albany Street	25 00	
		200 00

Miscellaneous:

Charles F. Hurley received expenses incurred defending position of Vice Chairman of the School Committee	500 00	
		11,539 42

PLANNING BOARD

Service Other Than Personal:

Printing and binding.....	\$39 20	
		39 20

TELEPHONE EXCHANGE

Service Other Than Personal:

Amount expended in excess of department receipts	\$423 25	
		423 25

MUNICIPAL PENSIONS

Clerk of Committees	\$800 00	
Treasury	1,847 00	
License Commission	689 00	
Engineering	946 40	
Municipal Buildings	688 50	
Fire	25,762 25	
Police	10,735 84	
Health	800 00	
Sewers	4,053 00	
Street Sanitary	2,564 92	
Street Maintenance	27,510 48	
Boston and Cambridge bridges.....	250 00	
School teachers	7,079 21	
Public Library	624 00	
Parks	1,411 21	
Cemetery	1,254 58	
Water	9,681 84	
		96,698 23

Amount carried forward.....	\$4,187,648 09	
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Unclassified—Continued

Amount brought forward.....\$4,187,648 09

AUDITING SPECIAL

Supplies:

Office	\$1,543 38	
	<hr/>	1,543 38

ALTERATIONS CITY BUILDING, AMERICAN LEGION
HEADQUARTERS

Rent of chairs.....	\$100 00	
Service not otherwise coded.....	488 29	
Furniture and fittings.....	409 19	
	<hr/>	997 48

COMMITTEE ON AMERICANIZATION

Personal Service:

Temporary employee	\$112 00	
	<hr/>	112 00

REPAIRS TO PUBLIC CLOCKS

Repairs to clock in Porter Square	\$38 43	
	<hr/>	38 43

G. A. R. HEADQUARTERS, POST 30

Service Other Than Personal:

For rent of headquarters, Post 30, G. A. R.	\$687 27	
	<hr/>	687 27

RUSSELL E. HOYT HEADQUARTERS, POST 299

Service Other Than Personal:

For rent of headquarters, Russell E. Hoyt Post 299	\$372 00	
	<hr/>	372 00

SUNDRY PUBLIC CELEBRATIONS

Patriots' Day	\$83 30	
Independence Day	3,643 76	
Cambridge 75 Years a City.....	27 00	
Labor Day	335 83	
Dedication of Bertram Williams Square.....	190 00	
Harding Memorial	83 50	
Granada Day	200 00	
Band at Inman Square.....	44 97	
Tree planting at Washington, D. C.....	50 00	
Christmas	48 71	
Reception to Sergeant Woodfill.....	199 74	
Wilson Memorial	172 98	
	<hr/>	5,079 79

Amount carried forward.....\$4,196,478 44

Unclassified—Continued

Amount brought forward..... \$4,196,478 44

SPANISH WAR CONVENTION

Rent of armory	\$55 00	
Services of bands	650 00	
Transportation	329 28	
Catering	1,198 26	
Printing	36 26	
Floral tribute	10 00	
Rent of piano	12 00	
Rent of chairs	9 80	
Janitor service	17 00	
Entertainment	65 00	
Decorations	235 20	
Services of stenographers	60 00	
Rent of room and Sanders Theatre.....	51 02	
		2,728 82

CELEBRATION RUSSELL HOYT FIELD, "APPREMONT DAY"

Pase for tablet and flagstaff.....	\$2,035 00	
Flagstaff	850 64	
Erection of band stand.....	84 32	
Banquet	1,292 50	
Refreshments	254 70	
Entertainment	30 00	
Services of bands.....	400 00	
Decorations	102 90	
Floral tributes	14 70	
Badges	10 19	
Printing	238 34	
Engraving and photographing	66 15	
Rent of chairs	12 25	
Rent of Neighborhood House	20 00	
Janitor service	23 00	
		5,434 69

MEMORIAL DAY

For observance by G. A. R. and American Legion		
Posts	\$2,515 86	
		2,515 86

DEDICATION OF WAR MEMORIAL DRIVE

Printing	\$13 47	
Transportation	29 40	
Services of Band.....	160 00	
Refreshments	99 22	
Janitor service.....	9 80	
		311 89
Amount carried forward.....		\$4,207,469 70

CEMETERIES

Amount brought forward..... \$4,207,469 70

CAMBRIDGE CEMETERY

Personal Service:

Permanent and temporary employees..... \$40,768 25

Service Other Than Personal:

Printing and binding.....	\$77 91	
Postage	44 00	
Advertising and posting.....	5 88	
Transportation of persons.....	74 00	
Cartage and freight.....	19 42	
Hire of teams and auto trucks.....	117 11	
Light and power.....	91 94	
Premium on surety bond.....	18 00	
Communication	90 69	
Motor vehicle repairs and care...	92 59	
Motorless vehicle repairs.....	269 30	
Blacksmith	23 52	
Fees, service of venires, etc.....	10 00	
Service not otherwise coded.....	69 61	
Harness, etc., repairs.....	53 67	
Horseshoeing and clipping.....	74 68	
		1,132 32

Equipment:

Machinery	\$114 58	
Tools and instruments.....	177 71	
Equipment not otherwise coded...	109 63	
		401 92

Supplies:

Office	\$285 41	
Food and ice.....	76 20	
Fuel	264 80	
Forage and animal.....	560 69	
Agricultural	995 68	
Motor vehicle.....	218 27	
Supplies not otherwise coded.....	1,231 33	
		3,632 38

Materials:

Buildings	\$66 88	
Materials not otherwise coded.....	345 30	
		412 18

Special Items:

Workingmen's compensation.....	\$425 17	
Soldiers' Markers.....	419 42	
		844 59

Incidental Expenditures:

Filling and grading.....	3,074 37	
		50,266 01

Amount carried forward..... \$4,257,735 71

Cemeteries—Concluded

Amount brought forward..... \$4,257,735 71

CEMETERY—RESURFACING COLONIAL CEMETERY

Personal Service:

Permanent and temporary employees..... \$640 04

Supplies:

Garden hose \$37 24

Fertilizer and lawn seed..... 122 60

159 84

799 88

CITY DEBT REQUIREMENTS

DETAILS OF SINKING FUNDS

SINKING FUNDS

BROOKLINE BRIDGE

Amount of fund, March 31, 1923.... \$7,145 15

Interest, 1923 285 81

Appropriation for 1923..... 300 00

Amount of fund, March 31, 1924..... \$7,730 96

CAMBRIDGE BRIDGE

Amount of fund, March 31, 1923.... \$466,596 90

Interest, 1923 18,663 88

Interest on account of Boston Ele-
vated Railway Company..... 10,300 00

Appropriation for 1923..... 9,380 00

Amount of fund, March 31, 1924..... 504,940 78

CAMBRIDGE BRIDGE SPECIAL

Amount of fund, March 31, 1923.... \$15,533 96

Interest, 1923 611 36

Appropriation for 1923..... 560 00

Amount of fund, March 31, 1924..... 16,705 32

COMMERCIAL AVENUE BRIDGE

Amount of fund, March 31, 1923.... \$14,290 38

Interest, 1923 571 62

Appropriation for 1923..... 600 00

Amount of fund, March 31, 1924..... 15,462 00

Amount carried forward..... \$4,258,535 59

City Debt Requirements—Continued

Amount brought forward..... \$4,258,535 59

SINKING FUNDS—Continued

HARVARD BRIDGE

Amount of fund, March 31, 1923.... \$54,096 97
Interest, 1923 1,763 88
Appropriation for 1923..... 200 00

\$56,060 85

Less bonds matured..... 10,000 00

Amount of fund, March 31, 1924..... 46,060 85

HOSPITAL ACTS OF 1895

Amount of fund, March 31, 1923.... \$81,659 43
Interest, 1923 3,266 38
Appropriation for 1923 5,040 00

Amount of fund, March 31, 1924..... 89,965 81

METROPOLITAN PARK ASSESSMENT

Amount of fund, March 31, 1923.... \$29,486 54
Interest, 1923 1,179 46
Appropriation for 1923..... 920 00

Amount of fund, March 31, 1924..... \$31,586 00

PARK

Amount of fund, March 31, 1923.... \$990,783 93
Interest, 1923 39,631 36
Appropriation for 1923..... 23,200 00

\$1,053,615 29

Less bonds matured..... 360,000 00

Amount of fund, March 31, 1924..... 693,615 29

PLAYGROUNDS

Amount of fund, March 31, 1923.... \$31,596 56
Interest, 1923 1,263 86
Appropriation for 1923..... 1,900 00

Amount of fund, March 31, 1924..... 34,760 42

IMPROVED SEWERAGE

Amount of fund, March 31, 1923.... \$266,253 49
Interest, 1923 10,660 14
Appropriation for 1923..... 7,980 00

Amount of fund, March 31, 1924..... 284,893 63

Amount carried forward..... \$4,258,535 59

City Debt Requirements—Continued

Amount brought forward..... \$4,258,535 59

SINKING FUND—Concluded

SEPARATE SYSTEM OF DRAINAGE

Amount of fund, March 31, 1923.... \$107,815 39
 Interest, 1923 4,312 62
 Appropriation for 1923..... 5,340 00

Amount of fund, March 31, 1924..... 117,468 01

BOSTON ELEVATED SHARE, CAMBRIDGE BRIDGE

Amount of fund, March 31, 1923.... \$257,500 00
 Earnings each year are deducted
 from Sinking Fund require-
 ment of Cambridge Bridge
 Loans

Amount of fund, March 31, 1924..... 257,500 00

GENERAL

Amount of fund, March 31, 1923....\$1,098,962 05
 Interest, 1923 38,274 77
 Appropriation for 1923..... 56,884 50

Bonds maturing in 1923..... \$1,194,121 32
 181,800 00

Amount of fund, March 31, 1924.....\$1,012,321 32

RECEIVED

From City Treasurer, appropriation from 1922:

Brookline Bridge	\$300 00
Cambridge Bridge	9,380 00
Cambridge Bridge Special	560 00
Commercial Avenue Bridge.....	600 00
Harvard Bridge	200 00
Hospital, Act of 1895.....	5,040 00
Metropolitan Park assessment.....	920 00
Park	23,200 00
Playgrounds	1,900 00
Improved sewerage	7,980 00
Separate system of drainage.....	5,340 00
General	56,884 50

112,304 50

Amount carried forward..... \$4,370,840 09

City Debt Requirements—Concluded

Amount brought forward \$4,370,840 09

MUNICIPAL SERIAL LOANS

For loans that have matured as follows:

Cambridge bridge loan.....	\$2,000 00	
Sewer construction.....	13,000 00	
Sewer separate system.....	6,000 00	
Street	262,050 00	
First Street bridge.....	4,000 00	
Building	30,000 00	
Schoolhouse	29,250 00	
Hospital	15,500 00	
Park	4,000 00	
Playground	1,300 00	
City	1,000 00	
Additional Departmental Equipment.....	28,000 00	
		<u>396 100 00</u>

INTEREST

For interest on loans in anticipation of taxes.....	\$55,965 68	
Saunders Temperance fund.....	600 00	
Daniel White Charity fund.....	600 00	
Dowse fund.....	600 00	
Departmental Equipment.....	6,191 25	
Building loan.....	11,416 25	
Sewer construction.....	25,533 75	
Sewer separate system.....	33,448 88	
City loan.....	540 00	
Street loan.....	85,167 00	
Cambridge bridge loan.....	61,137 50	
Cambridge bridge special.....	945 00	
Commercial Avenue bridge.....	2,000 00	
First Street bridge.....	3,752 50	
Harvard bridge.....	340 00	
Hospital loan.....	20,565 00	
Schoolhouse loan.....	39,630 13	
Park loan.....	61,468 50	
Metropolitan Park assessment.....	2,816 50	
Playground loan.....	4,449 00	
Cemetery loan.....	580 00	
Commissioners of sinking fund.....	655 11	
Interest on refund of 1922 sewer assessment	2 99	
		<u>418 405 04</u>

Amount carried forward..... \$5,185,345 13

PUBLIC SERVICE ENTERPRISES

Amount brought forward..... \$5,185,345 13

WATER DEPARTMENT—MAINTENANCE GENERAL

Personal Service:

For Salaries of:

Superintendent	\$3,500 00	
Registrar and Clerk of Water Board	1,803 86	
Inspector and clerks.....	30,214 50	
Labor, permanent.....	79,285 93	
Labor, temporary.....	31,377 31	
Treasurer of sinking fund.....	200 00	
Service of City Treasurer in collection of water rates, etc....	1,500 00	
Services of city solicitor.....	1,000 00	
		\$148,881 60

Service Other Than Personal:

Printing and binding.....	\$94 57	
Postage	732 54	
Advertising and posting.....	140 02	
Transportation of persons.....	730 00	
Cartage and freight.....	53 57	
Hire of teams and auto trucks...	32 00	
Light and power.....	401 35	
Lighting streets, alleys and parks	42 74	
Rent, taxes, water.....	2,750 10	
Communication	581 98	
Motor vehicle repairs and care...	340 85	
Motorless vehicle repairs.....	55 29	
Medical	27 00	
Blacksmith	211 34	
Extermination of insects.....	19 60	
Fees, service of venires, etc.....	92 34	
Photographic and blueprinting...	499 91	
Services not otherwise coded.....	2,149 68	
Harness, etc., repairs.....	156 99	
Horseshoeing and clipping.....	924 12	
Cleaning water mains.....	9,998 97	
		20,034 96

Equipment:

Motorless vehicles.....	63 70	
Stable	7 35	
Furniture and fittings.....	77 62	
Tools and instruments.....	1,512 22	
Wearing apparel.....	33 81	
Equipment not otherwise coded...	278 32	
		1,973 02

Supplies:

Office	1,409 44	
Food and ice.....	1,186 21	
Fuel	86 92	
Forage and animal.....	915 24	
Medical, surgical, laboratory.....	5 75	
Laundry, cleaning, toilet.....	25 48	
Motor vehicle.....	3,387 05	
Chemicals and disinfectants.....	46 44	
Supplies not otherwise coded.....	1,571 50	
		8,634 03

Amounts carried forward..... \$179,523 61 \$5,185,345 13

Public Service Enterprises—Continued

Amounts brought forward \$179,523 61 \$5,185,345 13

WATER DEPARTMENT—MAINTENANCE GENERAL—Concluded

Materials:

Water	\$36,061 04	
Materials not otherwise coded.....	102 62	
	<hr/>	36,163 66

Special Items:

Damages	\$1,249 75	
Serial loans	45,000 00	
Interest	60,556 25	
Pensions and annuities.....	9,681 84	
Workingmen's compensation	240 07	
Refunds	948 46	
	<hr/>	117,676 37

Incidental Expenditures:

Inspection of plant	\$1,128 69	
Leakage	66 52	
	<hr/>	1,195 21

\$334,558 85

WATER MAINTENANCE—RESERVOIRS

Personal Service:

For labor—permanent	\$26,525 59	
For labor—temporary	9,521 00	
Unassigned	480 00	
	<hr/>	\$36,526 59

Service Other Than Personal:

Printing and binding	\$13 72	
Advertising and posting	18 37	
Transportation of persons	25 00	
Cartage and freight	50	
Hire of teams and auto trucks.....	194 25	
Lighting streets, alleys and parks	4 50	
Rent, taxes, water	185 00	
Communication	114 30	
Cleaning	3,209 01	
Veterinary	3 00	
Extermination of insects	1 12	
Services not otherwise coded.....	407 03	
Harness, etc., repairs.....	9 55	
Horseshoeing and clipping.....	147 48	
	<hr/>	\$4,332 83

Equipment:

Motorless vehicles	\$9 80	
Wearing apparel	14 55	
Equipment not otherwise coded....	198 35	
	<hr/>	222 70

Supplies:

Fuel	\$31 36	
Forage and animal	284 09	
Chemicals and disinfectants	7 84	
Supplies not otherwise coded.....	212 71	
	<hr/>	536 00

Amounts carried forward \$41,618 12 \$5,519,903 98

Public Service Enterprises—Continued

Amounts brought forward \$41,618 12 \$5,519,903 98

WATER MAINTENANCE—RESERVOIRS—Concluded

Materials:

Materials not otherwise coded	\$207 40		
	<u>207 40</u>		
			\$41,825 52

WATER MAINTENANCE—PUMPING

Personal Service:

For labor—permanent	\$22,011 37		
For labor—temporary	2,081 73		
	<u>24,093 10</u>		

Service Other Than Personal:

Advertising and posting	\$16 17		
Transportation of persons.....	25 00		
Cartage and freight.....	39 76		
Light and power	809 05		
Lighting streets, alleys and parks	88 51		
Communication	103 81		
Blacksmith	17 64		
Boiler inspection	5 00		
Service not otherwise coded.....	8,683 70		
	<u>9,788 64</u>		

Equipment:

Tools and instruments	\$16 93		
Wearing apparel	43 80		
Equipment not otherwise coded....	27 76		
	<u>88 49</u>		

Supplies:

Office	\$10 10		
Food and ice	85 92		
Fuel	34,636 17		
Laundry, cleaning, toilet	31 85		
Chemicals and disinfectants.....	7 55		
Supplies not otherwise coded.....	4,615 11		
	<u>39,386 70</u>		

Materials:

Water	\$194 04		
	<u>194 04</u>		

Special Items:

Workingmen's compensation	\$68 00		
	<u>68 00</u>		
			73,618 97

WATER MAINTENANCE—FILTRATION

Personal Service:

For labor—permanent	\$13,506 68		
For labor—temporary	175 00		
	<u>13,681 68</u>		

Amounts carried forward	\$13,681 68	\$5,635,348 47
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Public Service Enterprises—Concluded

Amounts brought forward..... \$13,681 68 \$5,635,348 47

WATER MAINTENANCE—FILTRATION—Concluded

Service Other Than Personal:

Advertising and posting.....	\$1 96	
Cartage and freight.....	12 81	
Light and power.....	6,866 94	
Communication	86 52	
Photographic and blueprinting	3 18	
Service not otherwise coded.....	465 94	
	<hr/>	7,437 35

Equipment:

Medical, surgical, laboratory.....	\$5 62	
Tools and instruments.....	22 18	
Wearing apparel	68 06	
Equipment not otherwise coded....	147 17	
	<hr/>	243 03

Supplies:

Office	\$52 77	
Food and ice.....	48 39	
Laundry, cleaning, toilet.....	88 82	
Chemicals and disinfectants.....	15,372 08	
Supplies not otherwise coded.....	682 13	
Laboratory supplies	54 49	
	<hr/>	16,298 68
		<hr/>
		37,660 74
		<hr/>
		\$5,673,009 21

DEPARTMENTAL EQUIPMENT

ELECTRICAL DEPARTMENT UNDERGROUND CABLE

Personal Service:

Employees	\$5,790 44
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Service Other Than Personal, Material, Etc.:

Advertising	\$13 72
Bricks	21 56
Cable and cable boxes.....	8,276 80
Cartage and freight.....	60 16
Cement	462 00
Hardware, tools, etc.....	6,974 55
Installation of cable.....	895 97
Lumber	33 14
Plumbing and heating.....	248 00
Repairing pavement	530 14
Sand and gravel.....	251 78
Stone	22 29
Transportation of persons.....	60 00
	<hr/>
	17,850 11

Police Department:

Advertising	\$35 27
Combination police patrol and ambulance	4,850 00
	<hr/>
	4,885 27

Sewer Department:

Healey auto catch basin cleaning machine....	6,970 00
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Street Department:

Advertising	\$118 44
Garbage container	4,250 00
One Ford dump truck.....	748 17
One three and a half ton Mack truck	6,026 22
Two motor street sweepers.....	13,322 41
Two ten ton Holt tractors with plows	14,779 30
	<hr/>
	39,244 54

School Department:

Advertising	\$22 97
Furniture and furnishings.....	1,421 32
Two portable school houses.....	7,290 00
	<hr/>
	8,734 29

Total	<hr/>	83,474 65
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Amount carried forward.....	<hr/>	\$83,474 65
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HEALTH AND SANITATION

Amount brought forward \$83,474 65

SEWER DEPARTMENT CONSTRUCTION GENERAL

Personal Service:

Employees \$71,291 44

Service Other Than Personal, Material, Etc.:

Bricks	\$1,192 66	
Cement	2,819 63	
Cinders	54 88	
Frames, grates and covers.....	1,084 55	
Fuel	69 38	
Hardware, tools, etc.....	1,544 05	
Hose	219 13	
Lumber	1,372 04	
Oil, gasoline and kerosene.....	158 76	
Pipes and fittings	4,443 36	
Pumps	56 73	
Rails	90 20	
Repairs to pavements.....	304 72	
Repairs to pump.....	54 34	
Rubber boots	137 20	
Sand and gravel.....	2,126 05	
Sharpening tools	264 78	
Steel rods	166 10	
Stone	811 27	
Teaming	954 50	
Temporary water supply.....	12 28	
Traps	390 73	
		18,327 34

Total 89,618 78

HIGHWAYS AND BRIDGES

ALBANY STREET

Personal Service:

Employees \$9,831 62

Service Other Than Personal, Material, Etc.:

Cement	\$2,125 71	
Fuel	127 93	
Hardware, tools, etc.....	309 24	
Lighting	151 35	
Mixer repairs	41 56	
Recutting blocks	721 30	
Sand, gravel, etc.....	929 58	
Teaming	57 38	
Use of horses.....	777 00	
		5,241 05

Total 15,072 67

Amount brought forward..... \$188,166 10

Highways and Bridges—Continued

Amount carried forward..... \$188,166 10

ALDEN ROAD

Personal Service:

Employees \$2,105 30

Service Other Than Personal, Material, Etc.:

Binder \$120 59

Crushed stone 541 70

Fuel 16 46

Use of horses 318 00

996 75

Total 3,102 05

ALLSTON STREET

Personal Service:

Employees \$290 41

Service Other Than Personal, Material, Etc.:

Binder \$561 01

Crushed stone 1,208 40

Fuel 36 30

1,805 71

Total 2,096 12

AMORY STREET

Personal Service:

Employees \$4,314 83

Service Other Than Personal, Material, Etc.:

Amiesite \$5,640 32

Binder 47 19

Crushed stone 41 67

Fuel 72 76

Hardware, tools, etc..... 21 31

Lighting 1 47

Sand 10 18

Use of horses..... 666 00

6,500 90

Total 10,815 73

ARROW STREET

Personal Service:

Employees \$404 89

Service Other Than Personal, Material, Etc.:

Bitulithic \$2,563 87

Fuel 10 58

Use of horses 153 00

2,727 45

Total 3,132 34

BLACKSTONE STREET

Personal Service:

Employees \$1,748 92

Amount carried forward..... \$207,312 34

Highways and Bridges—Continued

Amount brought forward..... \$207,312 34

BLACKSTONE STREET—Continued

Service Other Than Personal, Material, Etc.:

Bitulithic	\$6,098 27	
Fuel	19 60	
Use of horses.....	420 00	
	<hr/>	6,537 87

Total 8,286 79

BLAKESLEE STREET

Personal Service:

Employees	\$2,958 37
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Service Other Than Personal, Material, Etc.:

Crushed stone.....	\$1,672 37	
Fuel	63 62	
Tarvia	550 37	
Tools	57 82	
Use of horses.....	330 00	
	<hr/>	2,674 18

Total 5,632 55

CAMBRIDGE STREET

Personal Service:

Employees	\$140 24
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Service Other Than Personal, Material, Etc.:

Bitulithic	7,280 19
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Total 7,420 43

CHERRY STREET

Personal Service:

Employees	\$1,499 70
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Service Other Than Personal, Material, Etc.:

Binder	\$83 89	
Bitulithic	4,885 20	
Fuel	19 60	
Lighting	46 55	
Use of horses.....	774 00	
	<hr/>	5,809 24

Total 7,308 94

COLUMBIA STREET

Personal Service:

Employees	\$6,590 24
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Service Other Than Personal, Material, Etc.:

Binder	\$283 11	
Bitulithic	15,356 50	
Fuel	140 52	
Hardware, tools etc.....	129 36	
Lighting	82 32	
Machinery	280 59	
Stone	312 52	
Use of horses.....	1,341 00	
	<hr/>	17,925 92

Total 24,516 16

Amount carried forward..... \$260,477 21

Highways and Bridges—Continued

Amount brought forward..... \$260,477 21

EVERETT STREET

Personal Service:

Employees \$595 79

Service Other Than Personal, Material, Etc.:

Binder \$173 02

Fuel 25 83

Stone 2,015 88

Tar 825 55

Use of horses.... 123 00

3,163 28

Total 3,759 07

FIRST STREET

Personal Service:

Employees \$485 09

Service Other Than Personal, Material, Etc.:

Hardware, tools, etc..... \$150 48

Sand, gravel, etc..... 279 56

430 04

Total 915 13

FRANKLIN STREET

(Sidney to Brookline)

Personal Service:

Employees \$131 66

Service Other Than Personal, Material, Etc.:

Bitulithic \$651 41

Crushed stone..... 62 50

713 91

Total 845 57

GARDEN STREET

Personal Service:

Employees \$4,137 68

Service Other Than Personal, Material, Etc.:

Binder \$293 62

Bitulithic 12,122 58

Fuel 188 36

Lighting 69 33

Roller parts..... 24 99

Stone 96 38

Tools 17 74

Use of horses..... 1,035 00

13,848 00

Total 17,985 68

Amount carried forward..... \$283,982 66

Highways and Bridges—Continued

Amount brought forward \$283,982 66

GRAY GARDENS

Personal Service:

Employees \$2,475 61

Service Other Than Personal, Material, Etc.:

Binder \$781 23

Crushed stone 3,391 34

Fuel 65 50

Use of horses 357 00

4,595 07

Total 7,070 68

HENRY STREET

Personal Service:

Employees \$260 24

Service Other Than Personal, Material, Etc.:

Binder \$435 18

Crushed Stone 1,375 06

Fuel 65 80

1,876 04

Total 2,136 28

HOLLY AVENUE

Personal Service:

Employees \$377 64

Service Other Than Personal, Material, Etc.:

Fuel \$19 60

Stone 362 96

Tar 183 46

Use of horses 51 00

617 02

Total 994 66

LAKEVIEW AVENUE

Service Other Than Personal, Material, Etc.:

Binder \$167 78

Crushed stone 1,660 05

Fuel 21 17

Tarvia 596 23

2,445 23

Total 2,445 23

LONGFELLOW ROAD

Personal Services:

Employees \$1,939 08

Service Other Than Personal, Material, Etc.:

Binder \$366 92

Crushed stone 992 96

Fuel 21 17

Use of horses 333 00

1,714 05

Total 3,653 13

Amount carried forward \$300,282 64

Highways and Bridges—Continued

Amount brought forward \$200,282 64

MAIN STREET

(R. R. Crossing to Lafayette Sq.)

Personal Service

Employees \$37,760 05

Service Other Than Personal, Material, Etc.:

Boiler Inspection \$5 00

Cement 4,891 02

Fuel 183 64

Granite Blocks 347 82

Hardware, tools, etc. 988 81

Lighting 381 46

Lumber 7 41

Mixer repairs 3 43

Office supply 23 03

Recutting blocks 5,815 15

Repairs to pavements 15 48

Sand 7,796 70

Services of engineer 564 01

Sundries 17 14

Teaming 1,545 25

Use of horses 3,525 00

26,247 79

Total 64,007 84

MARTIN STREET

Personal Service:

Employees \$523 25

Service Other Than Personal, Material, Etc.:

Binder \$131 86

Fuel 46 97

Stone 1,060 01

Tar 229 32

Use of horses 117 00

1,585 16

Total 2,108 41

NORFOLK STREET

Personal Service:

Employees \$4,526 35

Service Other Than Personal, Material, Etc.:

Binder \$157 29

Bitulithic 8,688 29

Fuel 62 99

Lighting 89 96

Roller Parts 34 30

Stone 166 68

Use of horses 789 00

9,989 51

Total 14,514 86

Amount carried forward \$380,913 75

Highways and Bridges—Continued

Amount brought forward \$380,913 75

NOTRE DAME AVENUE

Personal Service:

Employees \$1,412 75

Service Other Than Personal, Material, Etc.:

Binder \$332 52

Crushed stone 1,093 25

Use of horses 324 00

1,749 77

Total 3,162 52

PEABODY STREET

Personal Service:

Employees \$2,562 85

Service Other Than Personal, Material, Etc.:

Bitulithic \$1,534 26

Fuel 21 17

Lighting 11 76

Stone 463 10

Tools 102 90

Use of horses..... 195 00

2,228 19

Total 4,791 04

PLEASANT STREET

Personal Service:

Employees \$1,101 41

Service Other Than Personal, Material, Etc.:

Bitulithic \$1,825 15

Fuel 60 93

Hardware, tools, etc..... 49 98

Lighting 41 65

Stone 104 17

Use of horses..... 141 00

2,222 88

Total 3,324 29

PLYMPTON STREET

Personal Service:

Employees \$1,250 11

Service Other Than Personal, Material, Etc.:

Bitulithic \$3,747 02

Fuel 31 75

Lighting 49 00

Machinery 93 53

Use of horses..... 303 00

4,224 30

Total 5,474 41

Amount carried forward..... \$397,666 01

Highways and Bridges—Continued

Amount brought forward..... \$397,566 01

PRENTISS STREET

Personal Service:

Employees \$786 99

Service Other Than Personal, Material, Etc.:

Binder	\$126 13	
Fuel	49 51	
Stone	1,463 72	
Tar	183 46	
Use of horses	168 00	
		<u>1,990 82</u>

Total 2,777 81

RAYMOND STREET

Personal Service:

Employees \$755 99

Service Other Than Personal, Material, Etc.:

Binder	\$83 89	
Fuel	24 08	
Repairs	10 38	
Stone	1,288 69	
Tar	642 10	
Use of horses	144 00	
		<u>2,193 14</u>

Total 2,949 13

RESERVOIR STREET

Service Other Than Personal, Material, Etc.:

Crushed stone	\$802 94	
Tarvia	321 05	
		<u>1,123 99</u>

Total 1,123 99

SECOND STREET

Personal Service:

Employees \$199 83

Service Other Than Personal, Material, Etc.:

Binder	\$61 74	
Sand	81 10	
		<u>142 84</u>

Total 342 67

Amount carried forward..... \$404,859 61

Highways and Bridges—Continued

Amount brought forward..... \$404,859 61

SHERMAN STREET

Personal Service:

Employees \$2,072 15

Service Other Than Personal, Material, Etc.:

Bitulithic \$5,586 84
 Fuel 110 21
 Lighting 22 93
 Stone 1,295 99
 Use of horses 624 00
7,639 97

Total 9,712 12

SOMERVILLE AVENUE

Personal Service:

Employees \$3,454 39

Service Other Than Personal, Material, Etc.:

Bitulithic \$4,585 46
 Hardware, tools, etc..... 131 11
 Lighting 33 81
 Recutting blocks 63 70
 Stone 567 09
 Use of horses..... 1,236 00
6,617 17

Total 10,071 56

SURREY STREET

Personal Service:

Employees \$485 06

Service Other Than Personal, Material, Etc.:

Stone \$502 49
 Tar 183 46
 Use of horses 72 00
757 95

Total 1,243 01

TREMONT STREET

Personal Service:

Employees \$282 63

Service Other Than Personal, Material, Etc.:

Binder \$282 19
 Crushed Stone 1,328 31
 Fuel 21 48
 Petroleum 286 65
1,918 63

Total 2,201 26

Amount carried forward..... \$428,087 56

Highways and Bridges—Continued

Amount brought forward..... \$428,087 56

VASSAL LANE

Personal Service:

Employees \$804 18

Service Other Than Personal, Material, Etc.:

Stone \$714 88

Tar 665 03

Use of horses 138 00

1,517 91

Total 2,322 09

VASSAR STREET

Personal Service:

Employees \$1,300 47

Service Other Than Personal, Material, Etc.:

Excavating and grading..... \$1,813 00

Use of horses..... 153 00

1,966 00

Total 3,266 47

VINEYARD STREET

Personal Service:

Employees \$738 30

Service Other Than Personal, Material, Etc.:

Crushed stone \$879 45

Fuel 25 37

Tarvia 91 73

Use of horses 93 00

1,089 55

Total 1,827 85

WASHBURN AVENUE

Personal Service:

Employees \$658 88

Service Other Than Personal, Material, Etc.:

Fuel \$44 41

Stone 856 27

Tar 513 13

Use of horses..... 186 00

1,599 81

Total 2,258 69

SUNDRY STREETS FROM FIVE YEAR BALANCES 1922-23

Service Other Than Personal, Material, Etc.:

Hot patch \$743 82

Oil 164 64

Tar 143 32

Tarvia 192 18

1,243 96

Total 1,243 96

Amount carried forward..... \$439,006 62

Highways and Bridges—Continued

Amount brought forward..... \$439,006 62

EDGESTONES AND SIDEWALKS

Personal Service:

Employees \$29,426 66

Service Other Than Personal, Material, Etc.:

Allowance on granolithic walks..	\$2,348 56	
Artificial stone sidewalks.....	66 84	
Bricks	6,115 69	
Edgestone	7,324 62	
Fuel	14 70	
Granolithic sidewalks	93 83	
Hardware, tools, etc.....	186 62	
Light and power.....	217 66	
Lumber	9 80	
Paving	114 23	
Sand and gravel.....	1,630 90	
Sidewalks	563 40	
Use of horses	3,500 00	
		22,186 85

Total 51,623 51

FIRST STREET BRIDGE

Service Other Than Personal, Material, Etc.:

Employees \$464 99

Service Other Than Personal, Material, Etc.:

Advertising	\$6 86	
Consulting engineer	771 98	
Contract for constructing draw span	38,258 82	
Contract for constructing piers, abutments, approach spans and piling over Broad Canal	17,056 76	
Designers	900 00	
Edgestone	19 10	
Engineering	1,386 27	
Felt and pitch.....	175 67	
Granite paving	840 84	
Hardware, tools, etc.....	38 51	
Light and power.....	399 52	
Painting	129 10	
Paving	539 30	
Sand, gravel and cinders.....	69 22	
Scow rental	2,044 94	
Wooden blocks	512 86	
		63,149 75

Total 63,614 74

Amount carried forward..... \$554,244 87

SPECIAL FUND AND LOAN ACCOUNTS—MISCELLANEOUS

Amount brought forward..... \$554,244 87

MUNICIPAL HOSPITAL

Service Other Than Personal, Material, Etc.:

Architect \$17 52
Carpentry 100 00

Total 117 52

SHELTER AND ATHLETIC BUILDING AT RUSSELL FIELD

Service Other Than Personal, Material, Etc.:

Architect \$327 08
Cartage and freight..... 2 75
Contract for building and remodeling locker 5,684 45
Extending water supply..... 147 54
Laying service pipe..... 63 72
Lumber 139 84
Miscellaneous supplies..... 137 32

Total 6,502 70

ADDITION TO HOUGHTON SCHOOL

Service Other Than Personal, Material, Etc.:

Advertising \$24 99
Architect's services..... 5,751 99
Construction of addition..... 66,917 10
Drain layer..... 130 50
Electrical work..... 1,377 00
Heating and ventilating..... 6,596 08
Plumbing 2,198 95

Total 82,996 61

ADDITION TO RUSSELL SCHOOL

Service Other Than Personal, Material, Etc.:

Advertising \$5 88
Boilers 6,000 00
Caisson Piles..... 3,426 69
Construction of addition..... 90,333 75
Electrical work 2,941 00
Heating and ventilating..... 10,614 11
Lamps 31 85
Services of architect..... 7,579 66

Total 120,932 94

CONSTRUCTION CHAPEL AND OFFICE BUILDING AT CEMETERY

Service Other Than Personal, Material, Etc.:

Advertising \$5 88
Cartage and freight..... 4 13
Contract for changing former office building into mortuary chapel..... 1,740 00
Electrical 120 54
Furniture 484 12
Hardware, tools etc..... 851 18
Organ 230 30
Painting and varnishing..... 223 44
Stained windows..... 196 00
Typing 4 00

Total 3,859 59

Amount carried forward..... \$768,654 23

PUBLIC SERVICE ENTERPRISES

Amount brought forward..... \$768,654 23

WATER—DETECTOR METERS

Service Other Than Personal, Material, Etc.:

Building meter box.....	\$195 71
Meters	1,082 22

Total	1,277 93
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WATER CONSTRUCTION—FILTRATION PLANT

Service Other Than Personal, Material, Etc.:

Architect's fees.....	\$200 00
Cartage and freight.....	2 94
Cinders	235 20
Consulting engineer.....	10,812 86
Contract	59,983 31
Crushed stone.....	732 12
Deepening well.....	1,989 62
Filter equipment.....	33,955 03
Gravel	422 69
Hardware, tools etc.....	3,636 84
Loam	1,068 69
Lumber	128 73
Plumbing	778 76
Sluice gate disc.....	254 80
Steam roller	130 00
Teaming	622 00
Tiling	636 02
Use of watering cart.....	22 50

Total	115 612 11
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REFUND OF TAXES

1923 tax	\$2,870 77
1922 tax	3,234 11
1921 tax	1,166 94
1920 tax	1,098 06
1919 tax	981 70
1918 tax	874 50

Total	10,226 08
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REFUND MISCELLANEOUS

Interest	\$547 98
Costs	278 68
Corporation tax	2,226 95
Public service	623 63
National Bank tax.....	3 18

Total	3,680 42
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Amount carried forward.....	\$899,450 77
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Amount brought forward..... \$899,450 77

REFUND OF SIDEWALK ASSESSMENTS

Sundry persons 116 03

REFUND OF APPORTIONED SEWER ASSESSMENTS 1923

Sundry persons 40 71

REFUND OF COMMITTED SEWER INTEREST

Sundry persons 9 32

REFUND MOTH EXTERMINATION BILLS

1922 26

REFUND ON DEPARTMENT BILLS

Cemetery	\$65 00
Municipal Hospital	50 00
School	40 00
Tuberculosis Hospital	40 00

Total 195 00

TAX LIEN ACCOUNT

To return to sundry persons..... 75,473 76

PREMIUM ACCOUNT

Amount paid for certifying and preparing bonds..... 1,605 00

TRUSTEES OF CEMETERY FUNDS AND DEEDS IN TRUST

Paid to Treasurer, payment of Cemetery funds..... 9,685 78

MATURED FUNDED CITY LOANS

Loans, Municipal	\$25,000 00
Loans, Street	73,800 00
Loans, Harvard Bridge.....	10,000 00
Loans, Schoolhouse	80,000 00
Loans, Building	3,000 00
Loans, Park	356,000 00

Total 547,800 00

SMITH-HUGHES FUND

Amount paid by Commonwealth of Massachusetts..... 3,023 21

AMERICAN LEGION

Amount paid for soldiers' burials..... 89 12

TEMPORARY LOANS, TAXES 1923

Temporary loans 3,250,000 00

Amount carried forward..... \$4,787,488 96

Amount brought forward..... \$4,787,488 96

STATE, COUNTY AND METROPOLITAN TAXES AND SOLDIERS'
EXEMPTION

State Tax	\$335,040 00	
Charles River Basin Tax.....	17,711 21	
Metropolitan Park Loan Tax.....	70,627 47	
Metropolitan Parks Loan Tax, Series 2.....	31,252 97	
Metropolitan Parks Loan Tax, Nantasket.....	3,583 48	
Wellington Bridge Tax.....	200 51	
Metropolitan Sewerage Loan Tax.....	157,828 01	
Fire Prevention Tax	1,468 72	
Soldiers' Exemption Tax.....	364 72	
Civilian War Poll Tax.....	92,424 00	
Rapid Transit in Dorchester.....	504 93	
Alewife Brook Tax.....	4,131 01	
Smoke nuisance abatement.....	695 46	
Charles River Bridge Tax.....	24,920 09	
County Tax	206,180 73	
Total		946,933 31

ELECTRICAL DEPARTMENT

Cash for change..... 25 00

NOTE A—City Clerk's Agency Account:

Hunting and fishing licenses.....	\$1,075 90
Dog licenses to County.....	3,729 80

Total 4,805 70

Total Loans and Special Fund Accounts..... \$5,739,252 97

Total of Revenue Accounts..... 5,673,009 21

\$11,412,262 18

NOTE B—Payments for Sundry Departmental Refunds:

City Council	\$46 06
Treasury	6 17
Assessors	2 50
Election Commission	15 00
Fire	6 34
Health	2 14
Tuberculosis Hospital	18 29
Street Maintenance	12 41
City Home	13 59
Public Welfare—B.....	92 00
Public Welfare—Care of Persons.....	2,369 42
Public Welfare—Mothers' Aid.....	471 00
Soldiers' Relief	767 00
School	381 27
Library	63 90
Park Maintenance	3 00
Park Recreation	11 39
Celebrations	40 03
Water Maintenance, General.....	21 37
Interest	127 50
Street Construction—Main Street.....	51 00
Pensions	121 51

Total \$4,642 89

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
City Council			\$7,500 00			\$7,500 00	\$7,500 00	
Clerk of Committees' Dept.	A B, D, G		7,000 00	\$1,958 17		8,958 17	8,958 17	
			6,178 00	22 59		6,200 50	6,200 50	
			160 00	108 20		268 20	268 20	
			120 00	2 97		122 97	122 97	
Executive Dept.	A		13,065 00	80 00		13,145 00	13,145 00	
Auditing Dept.	B		847 00		39 62	807 38	807 38	
	D		675 00	61 85		736 85	736 85	
	G		500 00		291 14	208 86	208 86	
	A		9,122 00	125 00		9,247 00	9,247 00	
Treasurer and Collector	B		325 00	306 95		631 95	631 95	
	D		1,750 00	81 45		1,831 45	1,831 45	
	A		23,506 00	2,076 47		25,582 47	25,582 47	
	B		6,279 00	610 50		6,889 50	6,889 50	
Administration of Sinking Funds	C		75 00		11 79	63 21	63 21	
	D		1,850 00	407 30		2,257 30	2,257 30	
	A		500 00	100 00		600 00	600 00	
	B		50 00		10 00	40 00	40 00	
Assessors' Dept.	A		19,616 00	968 48		20,584 48	20,584 48	
License Commission	B		1,120 00	150 28		1,270 28	1,270 28	
	C		150 00	174 67		324 67	324 67	
	D		1,050 00	133 76		1,183 76	1,183 76	
	A		4,953 00	15 10		4,968 10	4,968 10	
City Clerk's Dept.	B		81 00	54 02		135 02	135 02	
	D		480 00		214 78	265 22	265 22	
	A		13,402 00		500 00	12,902 00	12,902 00	
	B		1,227 00	139 71		1,366 71	1,366 71	
City Messenger's Dept.	D		550 00	358 52		908 52	908 52	
	A		3,396 00	60 00		3,456 00	3,456 00	
	B		258 00	57 16		315 16	315 16	
	D		150 00	7 06		157 06	157 06	
Law Dept.	A		5,150 00	10 00		5,160 00	5,160 00	
Election Commission	B		2,250 00	1,529 59		3,779 59	3,779 59	
	D		275 00	218 03		493 03	493 03	
	A		15,978 00	895 18		16,873 18	16,873 18	
	B		8,945 00	733 74		9,678 74	9,678 74	
Engineering Dept.	C		350 00		22 75	327 25	327 25	
	D		1,110 00	53 46		1,163 46	1,163 46	
	A		13,038 00		844 00	12,194 00	12,194 00	
	B		490 00	130 97		620 97	620 97	
	D		150 00	35 55		185 55	185 55	
Carried Forward			\$173,671 00	\$11,666 64	\$1,934 08	\$183,403 56	\$183,403 56	

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward			\$173,671 00	\$11,666 64	\$1,934 08	\$183,403 56	\$183,403 56	
Inspection of Buildings			15,330 00		339 50	14,990 50	14,990 50	
			1,103 00	282 39		1,385 39	1,385 39	
			550 00	274 89		824 89	824 89	
Civil Service Labor Registration			500 00			500 00	500 00	
			25 00		6 55	18 45	18 45	
Municipal Buildings			23,530 00		1,838 00	21,692 00	21,692 00	
			5,565 00	3,786 28		9,351 28	9,351 28	
			1,200 00		246 06	953 94	953 94	
			5,970 00	1,581 45		7,551 45	7,551 45	
Police Dept.			381,056 80		3,574 72	377,482 08	377,482 08	
			3,189 00	1,637 26		4,826 26	4,826 26	
			1,325 00	152 09		1,477 09	1,477 09	
Automobile			5,350 00	690 74		690 74	690 74	
				1,216 71		6,566 71	6,566 71	
Catching Stray Dogs				257 25		257 25	257 25	
Fire Department			323,280 50		2,265 19	321,015 31	321,015 31	
			4,315 00		1,048 27	3,266 73	3,266 73	
			1,780 00		108 59	1,671 41	1,671 41	
			14,050 00	981 52		15,031 52	15,031 52	
Electrical Dept.			33,318 00	423 56		33,741 56	33,741 56	
			975 00	377 52		1,352 52	1,352 52	
			1,275 00		580 32	694 68	694 68	
Fire Alarm Boxes	660 00					660 00	660 00	
			2,290 00	67 97		2,357 97	2,357 97	
Park Dept. Forestry			16,000 00		1,159 70	14,840 30	14,840 30	
			520 00	49 55		569 55	569 55	
			1,550 00		32 96	1,517 04	1,517 04	
Sealer of Weights and Measures			7,900 00		300 00	7,600 00	7,600 00	
			416 00		60 48	355 52	355 52	
			100 00		54 60	45 40	45 40	
			700 00	42 42		742 42	742 42	
			50 00			50 00	50 00	
Game Warden								
Use of Rifle Range and Militia				316 00		316 00	316 00	
Quartered at Cambridge Armory			250 00		187 80	62 20	62 20	
Pole and Conduit Commission			58,368 00		1,017 70	57,350 30	57,350 30	
Health Dept. General			15,297 00	20,589 68		35,877 68	35,877 68	
			50 00		1 00	49 00	49 00	
			2,844 00		9 77	2,834 23	2,834 23	
Schick Testing and Diphtheria Immunization			2,000 00		3 00	1,997 00	1,997 00	
Health—Tuberculosis Hospital			24,708 00		1,021 44	23,686 56	23,686 56	
			455 00		83 44	371 56	371 56	
			25,150 00	4,152 99		29,302 99	29,302 99	
Carried Forward	\$660 00		\$1,156,006 30	\$48,537 91	\$15,873 17	\$1,180,331 04	\$1,180,331 04	

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward	\$660 00		\$1,156,006 30	\$48,537 91	\$15,873 17	\$1,189,331 04	\$1,189,331 04	
Health—Inspection of Milk and Vinegar			3,000 00			3,000 00	3,000 00	
A			222 00	53 00		275 00	275 00	
B			200 00	41 57		241 57	241 57	
C			360 00	41 34		401 34	401 34	
D			1,700 00			1,700 00	1,700 00	
Health—Inspection of Animals			450 00			450 00	450 00	
A			300 00		04	299 96	299 96	
B			5,480 00			5,480 00	5,480 00	
D			300 00			298 69	298 69	
Health—School Dentist			300 00			32,024 72	32,024 72	
Sewer Dept. Maintenance General		4,971 44	25,500 00	1,553 28	1 31	3,097 01	3,097 01	
A			1,865 00	1,232 01		935 27	935 27	
B			890 00	45 27		3,474 32	3,474 32	
C			2,300 00	1,174 32		449 05	449 05	
D			600 00		150 95	187 45	187 45	
E								
F11								
Sewer—Suppression Flies and Mosquitoes			2,000 00	999 21		2,999 21	2,999 21	
Sewer—Trench at Hospital				500 00		500 00	500 00	
Street—House Offal, Refuse and Garbage Disposal			220,000 00	41,532 32		261,532 32	261,532 32	
A			2,357 00	2,675 71		5,032 71	5,032 71	
B			125 00		3 09	121 91	121 91	
C			1,906 00	1,937 82		3,837 82	3,837 82	
D				6,500 83		6,500 83	6,500 83	
F11								
Street—Foundations in Connection with Offal Disposal Tanks			950 00	334 36		1,284 36	1,284 36	
Street Dept. Maint. General			195,000 00	21,915 75		216,915 75	216,915 75	
A			12,230 00	152 02		12,382 02	12,382 02	
B			3,569 00		163 28	3,396 72	3,396 72	
C			4,800 00	2,855 54		7,655 54	7,655 54	
D			19,500 00		5,433 61	14,066 39	14,066 39	
E				1,742 38		1,742 38	1,742 38	
F11				1,892 67		16,592 67	16,592 67	
F12					3 97	9,996 03	9,996 03	
F14								
Street Cons. Industrial Track in Munroe Street			14,700 00					
Street—Discontinuation of Irving Street (Part between Library and Rindge Technical School)			10,000 00					
Street Dept. Maint. Stable			23,000 00		23,000 00			
A			3,500 00	7,763 28		888 05	888 05	
B			64,000 00	18 68	2,611 95	71,763 28	71,763 28	
D			1,290 00	3,405 12		1,308 68	1,308 68	
F11			27,060 00	591 03		30,465 12	30,465 12	
Boston and Cambridge Bridges			19,014 12		93 29	591 03	591 03	
A			6,410 00	3,139 83		18,920 83	18,920 83	
B			290 00	56 25		9,549 83	9,549 83	
D			2,000 00	826 33		346 25	346 25	
E			82,000 00	1,336 63		2,826 33	2,826 33	
B						83 336 63	83 336 63	
Electrical—Street Lighting								

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward								
Public Welfare—City Home	\$660 00	\$4,971 44	\$1,914,859 42	\$153,041 91	\$17,334 66	\$2,026,198 11	\$2,026,198 11	
			17,558 00	814 95		18,372 95	18,372 95	
			1,790 00	203 20		1,993 20	1,993 20	
			1,325 00		281 93	1,043 07	1,043 07	
			16,895 00	849 65		17,744 65	17,744 65	
			259 00	17 05		267 05	267 05	
			700 00	24 50		724 50	724 50	
Public Welfare—Outside Aid			13,755 00		394 00	13,361 00	13,361 00	
			4,110 00		1,303 24	2,806 76	2,806 76	
			600 00		118 96	481 04	481 04	
			12,025 00		3,778 92	8,246 08	8,246 08	
			75,000 00	13,645 81		88,645 81	88,645 81	
			82,003 00	13,657 92		95,667 92	95,667 92	
Municipal Hospital			50,000 00		1,652 01	48,347 99	48,347 99	
			9,345 00	4,611 16		13,956 16	13,956 16	
			700 00		266 38	433 62	433 62	
			53,300 00	7,788 39		61,088 39	61,088 39	
			6,586 00		24 00	6,562 00	6,562 00	
			1,230 00	62 17		1,292 17	1,292 17	
			275 00		14 58	260 42	260 42	
			83,000 00		21,317 97	61,682 03	61,682 03	
			203 00		32 62	167 38	167 38	
School Dept. Salaries and Expenses			1,362,196 56			1,488,184 30	1,453,390 12	34,794 18
Haggerty School, Shower Baths	75,111 59	50,876 15	1,000 00	217 95		1,217 95	1,217 95	
Roberts School, Shower Baths			1,850 00	804 46		2,654 46	2,654 46	
Thorndike School, Shower Baths			3,000 00	63 13		3,063 13	3,063 13	
Library			40,944 00	99 02		41,043 02	41,043 02	
			5,850 00		7 97	5,842 03	5,842 03	
			350 00	397 09		747 09	747 09	
			12,400 00		394 10	12,005 90	12,005 90	
				661 15		661 15	661 15	
Library—Repairs to Library Bldg.,			38,000 00	6,323 84		44,323 84	44,323 84	
Park Dept. Maint. General			2,169 00	2,119 00		4,288 00	4,288 00	
				583 01		583 01	583 01	
			4,395 00	768 15		5,163 15	5,163 15	
			1,375 00	833 70		2,208 70	2,208 70	
				491 42		491 42	491 42	
Park—Curbing at Roberts School Playground				367 96		696 20	696 20	
Park—Repairs to Iron Fence Around Soldiers' Monument, Cambridge Common	328 24							
			1,500 00	373 00		373 00	373 00	
			26,812 00		1 77	1,498 23	1,498 23	
			438 00		5,128 06	21,683 94	21,683 94	
Park—Resurfacing Thorndike Field								
Park Dept. Maint. Playgrounds								
			1,950 00	576 90		1,014 90	1,014 90	
			4,000 00	704 48		2,654 48	2,654 48	
			300 00		1,264 97	2,735 03	2,735 03	
					3 71	296 29	296 29	
Carried Forward	\$76,099 83	\$55,847 59	\$3,854,032 98	\$210,110 97	\$83,319 85	\$4,112,771 52	\$4,077,977 34	\$34,794 18

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

Accounts	Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward	\$76,099 83	\$55,847 59	\$3,854,032 98	\$210,110 97	\$83,319 85	\$4,112,771 52	\$4,077,977 34	\$34,794 18
Reserve Fund		100,000 00			79,717 54	20,282 46		20,282 46
Postage and Stationery		108 01	2,000 00		1,137 36	970 65	970 65	
Damages to Persons and Property			5,000 00	6,539 42		11,539 42	11,539 42	
Planning Board			1,500 00		1,460 80	39 20	39 20	
Telephone Exchange		423 25	3,500 00		3,500 00	423 25	423 25	
Municipal Pensions		9,681 84	101,624 20		14,607 81	96,698 23	96,698 23	
Auditing Special				1,543 38		1,543 38	1,543 38	
Alterations City Bldg., American Legion Headquarters				997 48		997 48	997 48	
Committee on Americanization				112 00		112 00	112 00	
Repairs to Public Clocks			400 00	38 43		38 43	38 43	
Post 30, G. A. R.				287 27		687 27	687 27	
Headquarters Russell E. Hoyt Post 299				372 00		372 00	372 00	
Public Celebrations			7,800 00		2,720 21	5,079 79	5,079 79	
Spanish War Convention				2,728 82		2,728 82	2,728 82	
Celebration Russell Hoyt Field				5,434 69		5,434 69	5,434 69	
"Apemont Day"			2,000 00	515 86		2,515 86	2,515 86	
Memorial Day				311 89		311 89	311 89	
Dedication War Memorial Drive	2,969 32				2,969 32			
Memorial Flag Staff			38,000 00	2,768 25		40,768 25	40,768 25	
Cemetery Dept.			888 00	244 32		1,132 32	1,132 32	
			230 00	171 92		401 92	401 92	
			2,600 00	1,032 38		3,632 38	3,632 38	
			650 00		237 82	412 18	412 18	
				425 17		425 17	425 17	
				419 42		419 42	419 42	
					125 63	3,074 37	3,074 37	
Cemetery—Grading			3,200 00					
Cemetery — Resurfacing				799 88		799 88	799 88	
Cemetery Harvard Square			112,304 50			112,304 50	112,304 50	
Sinking Funds			415,450 00			396,100 00	396,100 00	
Serial Loans			444,112 25		19,350 00	418,405 04	418,405 04	
Interest					25,707 21			
Carried Forward	\$79,069 15	\$66,060 69	\$5,095,291 93	\$234,853 55	\$234,853 55	\$5,240,421 77	\$5,185,345 13	\$55,076 64

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

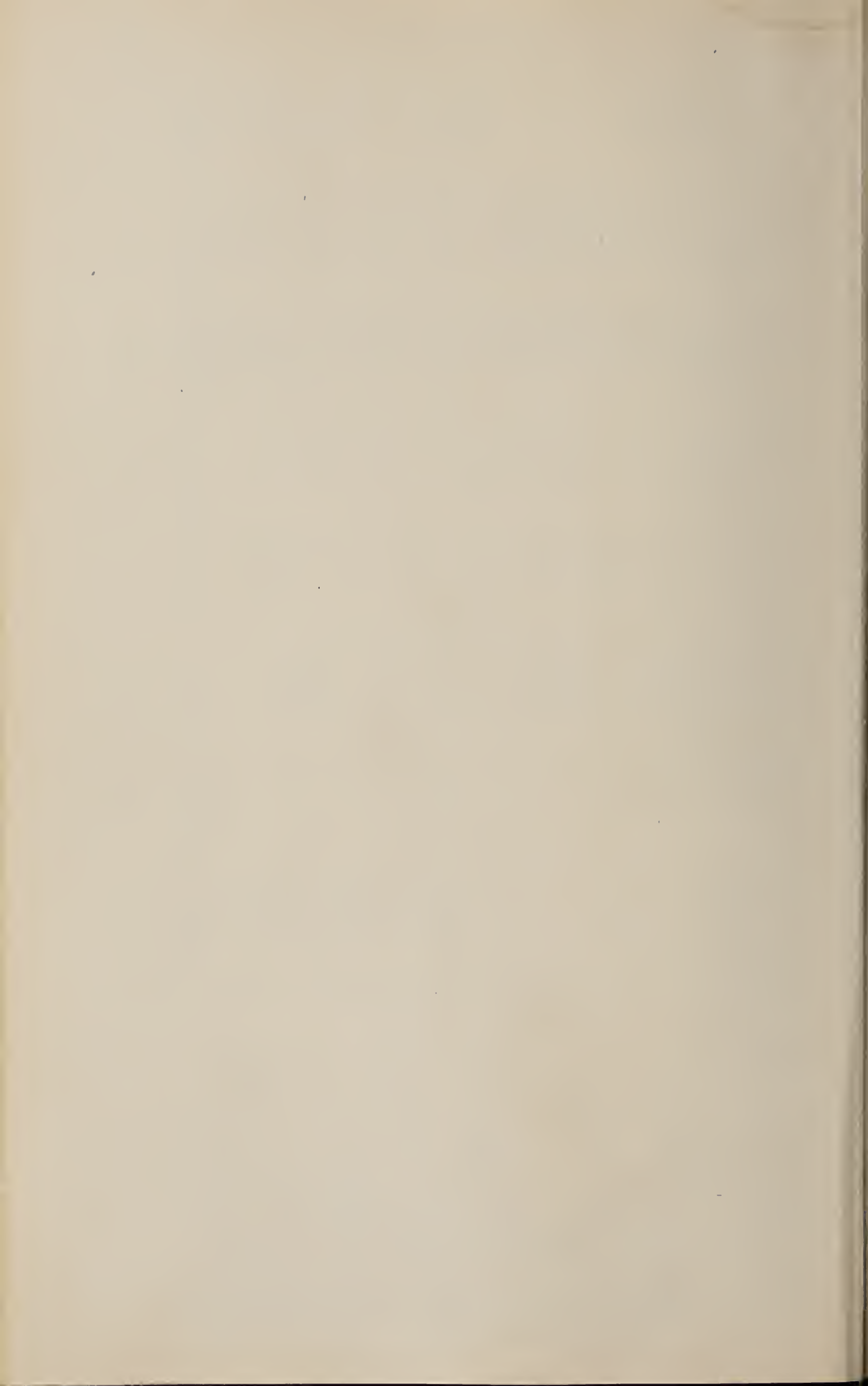
Accounts		Balances	Revenue Reappropriated	Appropriations	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Water Dept. Expenditures: Water Dept. Maint. General	A		\$5,000 00	\$159,756 47		\$5,455 08	\$159,301 39	\$148,881 60	\$10,419 79
	B			21,110 00		1,075 04	20,034 96	20,034 96	
	C			2,325 00		351 98	1,973 02	1,973 02	
	D			10,725 00		2,090 97	8,634 03	8,634 03	
	E			31,125 00	5,038 66		36,163 66	36,163 66	
	F2			3,000 00		1,750 25	1,249 75	1,249 75	
	F4			45,000 00			45,000 00	45,000 00	
	F5			70,000 00		9,443 75	60,556 25	60,556 25	
	F7			9,573 40	108 44		9,681 84	9,681 84	
	F11			500 00		259 93	240 07	240 07	
	F14			4,000 00		3,051 54	948 46	948 46	
	G			2,500 00		1,304 79	1,195 21	1,195 21	
	A			36,844 00		317 41	36,526 59	36,526 59	
	B			5,290 00		957 17	4,332 83	4,332 83	
Water Dept. Reservoirs	C			250 00		27 30	222 70	222 70	
	D			1,070 00		534 00	536 00	536 00	
	E			1,775 00		1,567 60	207 40	207 40	
	F2			3,500 00		3,500 00			
	A			23,270 00	823 10		24,093 10	24,093 10	
	B			2,225 00	7,563 64		9,788 64	9,788 64	
	C			500 00		411 51	88 49	88 49	
Water Dept. Pumping	D			30,645 00	8,741 70		39,386 70	39,386 70	
	E				194 04		194 04	194 04	
	F11				68 00		68 00	68 00	
	A			13,000 00	681 68		13,681 68	13,681 68	
	B			3,700 00	3,737 35		7,437 35	7,437 35	
	C			250 00		6 97	243 03	243 03	
	D			11,150 00	5,148 68		16,298 68	16,298 68	
Carried Forward			\$5,000 00	\$493,083 87	\$32,105 29	\$32,105 29	\$498,083 87	\$487,664 08	\$10,419 79

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

Accounts	Balances	Receipts	Loans Authorized	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Remodelling Central Sq. Building	\$77,572 06	\$5,000 00			\$77,000 00	\$572 06	\$83,474 65	\$572 06
Departmental Equipment	89,824 13	5,520 09	\$90,000 00			94,824 13	89,618 78	11,349 48
Sewer Construction General	9,561 54					105,081 63		15,462 85
Street Construction:								
Albany Street	22,516 25					22,516 25	15,072 67	7,443 58
Alden Road			4,500 00	\$3,102 05		3,102 05	3,102 05	
Allston Street			6,400 00	4,415 73	2,403 88	2,096 12	2,096 12	
Amory Street			3,500 00		367 66	10,815 73	10,815 73	
Arrow Street					3,098 80	3,132 34	3,132 34	
Auburn Street	3,098 80		9,500 00		1,213 21	8,286 79	8,286 79	
Blackstone Street				5,632 55		5,632 55	5,632 55	
Blakeslee Street					2,178 94	7,420 43	7,420 43	
Brattle Street	2,178 94		7,500 00		4,945 77	7,308 94	7,308 94	
Cambridge Street	12,366 20		24,000 00	516 16	191 06	24,516 16	24,516 16	
Cherry Street					732 84			
Columbia Street	732 84		5,700 00		1,940 93	3,759 07	3,759 07	
Dudley Street					3,514 92	915 13	915 13	
Everett Street	4,430 05		6,000 00			6,000 00		6,000 00
First Street								
Franklin Street (Blanche to Landsdowne)								
Franklin Street (Sidney to Brookline)				845 57		845 57	845 57	
Garden Street			19,000 00		1,014 32	17,985 68	17,985 68	
Gray Gardens				7,070 68		7,070 68	7,070 68	
Henry Street			5,000 00		2,863 72	2,136 28	2,136 28	
Holly Avenue			1,500 00		505 34	994 66	994 66	
Lakeview Avenue				2,445 23		2,445 23	2,445 23	
Longfellow Road				3,653 13		3,653 13	3,653 13	
Main Street (R. R. Crossing to Lafayette Square)	13,081 50		100,000 00		3,617 87	109,433 63	64,007 84	45,425 79
Martin Street			2,400 00		291 59	2,108 41	2,108 41	
Mass. Avenue (Easterly Side—Summer Monument to Cambridge St.)			9,000 00			9,000 00		9,000 00
Mass. Avenue (Westerly side Garden St. to Waterhouse St.)			9,000 00			9,000 00		9,000 00
Munroe Street Extension	25,000 00					25,000 00		25,000 00
Norfolk Street (Mass. Ave. to Broadway)			15,000 00		485 14	14,514 86	14,514 86	
Notre Dame Avenue			1,600 00	1,562 52		3,162 52	3,162 52	
Peabody Street			7,000 00		2,208 96	4,791 04	4,791 04	
Pleasant Street						7,067 60	3,324 29	3,743 31
Plympton Street	7,067 60		6,500 00		1,025 59	5,474 41	5,474 41	
Prentiss Street			2,100 00	677 81		2,777 81	2,777 81	
Carried Forward	\$267,429 91	\$10,520 09	\$335,200 00	\$29,921 43	\$109,630 54	\$533,440 89	\$400,443 82	\$132,997 07

Statement Showing Auditor's and Treasurer's Expenditures and Balances for Year, April 1, 1923, to March 31, 1924

Accounts	Balances	Receipts	Loans Authorized	Transfer to	Transfer From	Total Appropriations	Total Expenditures	Balances
Amounts Brought Forward	\$267,429 91	\$10,520 09	\$335,200 00	\$29,921 43	\$109,630 54	\$533,440 89	\$400,443 82	\$132,997 07
Raymond Street			4,400 00	1,123 99	1,450 87	2,949 13	2,949 13	
Reservoir Street						1,123 99	1,123 99	
Second Street	9,869 46					9,869 46	342 67	9,526 79
Sherman Street			9,000 00	712 12		9,712 12	9,712 12	
Somerville Avenue	7,981 38			2,090 18		10,071 56	10,071 56	
Surrey Street			1,500 00		253 99	1,243 01	1,243 01	
Tremont Street			5,300 00		3,098 74	2,201 26	2,201 26	
Vassal Lane			2,600 00		277 91	2,322 09	2,322 09	
Vassar Street				3,266 47		3,266 47	3,266 47	
Vineyard Street			2,000 00		172 15	1,827 85	1,827 85	
Washburn Street			3,000 00		741 31	2,258 69	2,258 69	
Five Year Balances 1922-23	1,358 19				94 23	1,243 96	1,243 96	219 25
Five Year Balances 1923-24				14,097 66	13,878 41	219 25		1,389 30
Ten Year Balances 1923-24	21,564 32	17,856 54	15,000 00	20,977 21	19,587 91	1,389 30	51,623 51	2,797 35
Edgestones and Sidewalks	69,666 39					54,420 86	63,614 74	6,051 65
First Street Bridge	290 40					69,636 39		290 40
Land Damages						290 40		
Const. & Equipment Municipal Hospital	137 59					137 59	117 52	20 07
Construction Shelter and Athletic Bldg. at Russell Field	6,503 99					6,503 99	6,502 70	1 29
Land for Playgrounds	449 95					449 95		449 95
Land and Addition to Houghton School	124,852 45		40,000 00			164,852 45	82,993 61	81,855 84
Addition, Equipment and Furnishing Russell School	135,885 44		40,000 00	74,000 00		249,885 44	120,932 94	128,952 50
Addition to High and Latin School	1,746 89					1,746 89		1,746 89
Construction Chapel and Office Building at Cambridge Cemetery	1,067 88			-3,000 00		4,067 88	3,859 59	208 29
Water Construction Detector Meters	1,277 93					1,277 93	1,277 93	
Water Construction Filtration Plant		115,612 11				115,612 11	115,612 11	
	\$650,062 17	\$143,988 74	\$458,000 00	\$149,189 06	\$149,189 06	\$1,252,050 91	\$885,544 27	\$366,506 64



SCHEDULE B

Nos. I. to VII.

ASSETS AND LIABILITIES

SCHEDULE B-I.

March 31, 1924

ASSETS

Current Assets (B-II.).....	\$1,305,929	87
Contingent Assets (B-III.).....	271,144	61
Trust Funds and Special Deposits (B-IV.).....	234,467	38
Sinking Funds (B-V.).....	3,796,174	20
<hr/>		
Total Available Assets.....	\$5,607,716	06
Fixed Assets (Unavailable B-VI.).....	\$15,789,086	12
<hr/>		
Grand Total of Assets.....	\$21,396,802	18

LIABILITIES

Current Liabilities (B-I.).....	\$14,000	00
Contingent Liabilities (B-III.).....	219,283	75
Trust Liabilities (B-IV.).....	234,467	38
Bonded Debt (B-V.).....	10,115,300	00
<hr/>		
Total Liabilities.....	\$10,583,051	13
General Deficit and Surplus Account (B-VII.).....	10,813,751	05
<hr/>		
Grand Total of Liabilities.....	\$21,396,802	18

SCHEDULE B-II.

CURRENT ASSETS

Cash:

Cash in the Treasury, March 31, 1924.....	\$283,535 31
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Good Accounts Receivable:

Delinquent Taxes, 1923	\$628,030 26
Delinquent Taxes, 1922	95,650 23
Delinquent Taxes, 1921	75,522 20
Delinquent Taxes, 1920	55,199 72

Other good accounts:

Moth Assessments	230 69
Sidewalk Assessments	7,664 51
Sewer Assessments	1,722 96
Street Watering Assessments.....	172 79
Water Department, Rates, Meter, etc.....	5,173 87

Miscellaneous bills as follows:

Health	\$21,983 95
Sewer	358 45
Street	5,442 32
Outside Aid	52,411 51
Schools	6,660 28
Park	744 72
Cemetery	5,477 95
Municipal Hospital	59,948 15
	<hr/> 153,027 33

Total Good Accounts receivable.....	1,022,394 56
-------------------------------------	--------------

Total Current Assets.....	\$1,305,929 87
---------------------------	----------------

CURRENT LIABILITIES

(Floating Debts)

1. Outstanding Accounts Due and Unpaid:

Of previous years	\$14,000 00	
	<hr/>	14,000 00

Surplus of Current Assets (B-VII.).....	\$1,291,929 87
---	----------------

SCHEDULE B-III.

CONTINGENT ASSETS

Doubtful Accounts Receivable:

Delinquent Personal Property and Poll Taxes, viz.:

1919	\$37,722 16
1918	35,888 59
1917	31,011 74
1916	31,270 80
1915	655 60
1914	506 62
1913	332 60

Liens	\$137,388 11
Other doubtful accounts, viz.:	
Miscellaneous bills	133,756 50
	<hr/>
	\$271,144 61

CONTINGENT LIABILITIES

Retention Fund Account:

Percentage of Contractors' payments, viz.:

Reserved on School House Contracts.....	\$210,808 34
Reserved on Cemetery Building.....	208 29
Reserved on First Street Bridge.....	8,267 12
	<hr/>
	219,283 75

Surplus of Contingent Assets (B-VII.).....	<hr/>
	\$51,860 86

SCHEDULE B-IV.

TRUST FUND ASSETS

Special Deposits, etc., viz.:

Cemetery Fund	\$3,313 68	
Bridge Charitable Fund.....	2,986 84	
Dowse Institute Fund.....	247 58	
Daniel White Charity Fund.....	507 39	
Sarah E. Russell Fund.....	814 41	
William E. Saunders Fund.....	512 13	
Citizens' Subscription Fund.....	85 07	
Cummings Legacy	9 49	
Fay Legacy	3 07	
James A. Woolson Fund.....	581 72	
Edward H. Whorf Fund.....	466 77	
William Penn Harding Fund.....	1,010 82	
John Wesley Freese Fund.....	132 17	
Mehitable C. C. Wilson Fund.....	842 56	
Hopkins Fund, The.....	168 45	
Abigail W. Howe Fund.....	3,078 01	
Tailings Account Trust Funds.....	5,392 87	
		<hr/>
		\$20,153 03

Investment of Trust Funds:

Stocks and Bonds in Various Funds, viz.:

Cemetery Fund	\$155,150 00	
Cemetery Funds, Deeds in Trust.....	452 00	
Cummings Legacy	2,000 00	
Fay Legacy	1,000 00	
Citizens' Subscription Fund.....	5,500 00	
Dowse Institute Fund.....	10,000 00	
Daniel White Charity Fund.....	10,360 00	
Sanders Temperance Fund.....	11,100 00	
William E. Saunders Fund.....	7,752 35	
James A. Woolson Fund.....	5,000 00	
Edward H. Whorf Fund.....	3,000 00	
Donation of Cambridge Citizens, 1923.....	3,000 00	
		<hr/>
		214,314 35

Total Assets in Trust Funds.....	\$234,467 38
----------------------------------	--------------

LIABILITIES

Trust Funds and Special Funds, viz.:

Cemetery Fund Account	\$158,463 68
Bridge Charitable Fund.....	2,986 84
Dowse Institute Fund.....	10,247 58
Daniel White Charity Fund.....	10,867 39
Sarah E. Russell Fund.....	814 41
William E. Saunders Fund.....	8,264 48
Citizens' Subscription Fund.....	5,585 07
Cummings Legacy	2,009 49
	<hr/>

Amount carried forward.....	\$199,238 94
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TRUST FUND LIABILITIES—Concluded

Schedule B-IV.—Concluded

Amount brought forward.....	\$199,238 94	
Fay Legacy	1,003 07	
James A. Woolson Fund.....	5,581 72	
Edward H. Whorf Fund	3,466 77	
William Penn Harding Fund.....	1,010 82	
The Hopkins Fund.....	168 45	
Cemetery Fund, Deeds in Trust.....	452 00	
Sanders Temperance Fund.....	11,100 00	
Mehitable C. C. Wilson Fund.....	842 56	
John Wesley Freese Fund.....	132 17	
Tailings Account Trust Fund.....	5,392 87	
Abigail W. Howe Fund.....	3,078 01	
Donation of a Citizen Fund.....	3,000 00	
<hr/>		
Total Liabilities		\$234,467 38

SCHEDULE B-V.**SINKING FUND ASSETS****Investment of Sinking Funds:**

Bonds and Other Securities, viz.:

(For list of securities see Report of Sinking Fund Commissioners)

Sinking Funds, City Debt.....\$3,113,010 39

Sinking Funds, Water Debt..... 683,163 81

Total Sinking Funds..... \$3,796,174 20

Excess of Debt (Net City and Water Debts) (See B-VII.)..... 6,319,125 80

\$10,115,300 00**BONDED DEBTS OF THE CITY****1. General Bonds:**

a. For General Municipal Purposes:

City Funded and Serial Debt.....\$8,661,300 00

b. For Municipal Enterprises:

Water Works, Funded and Serial Debt..... 1,454,000 00

2. Special Assessment Bonds:

Total of Bonded Debts.....\$10,115,300 00

SCHEDULE B-VI.

FIXED ASSETS

Land, Buildings and Equipment:

Law Department, equipment.....		\$385 00
City Buildings:		
Land	\$156,800 00	
Buildings	339,000 00	
Equipment	41,235 00	
		<hr/> 537,036 00
Election Commission, equipment.....		3,725 00
Police Department, equipment.....		20,471 40
Fire Department:		
Land	\$60,200 00	
Buildings	193,400 00	
Equipment	218,458 00	
		<hr/> 472,058 00
Fire Alarm and Police Telegraph, equipment.....		80,700 00
Sealer of Weights and Measures equipment.....		2,507 39
Health Department:		
Land	\$9,800 00	
Buildings	52,600 00	
Equipment	9,512 25	
		<hr/> 111,912 25
Inspection of Milk and Vinegar, equipment.....		1,289 00
Engineering Department, Equipment.....		149,881 00
Sewer Department:		
Land	\$12,800 00	
Buildings	4,300 00	
Equipment	8,839 00	
		<hr/> 25,939 00
Street Department:		
Land	\$109,300 00	
Buildings	114,500 00	
Equipment	148,350 00	
		<hr/> 372,150 00
Bridge Department, equipment.....		2,100 00
City Home:		
Land	\$91,900 00	
Buildings	46,500 00	
Equipment	5,500 00	
		<hr/> 143,900 00
Public Welfare, Outside Aid, equipment.....		1,350 00
Municipal Hospital:		
Land	\$81,200 00	
Buildings	325,000 00	
Equipment	45,000 00	
		<hr/> 451,200 00
School Department:		
Land	\$434,200 00	
Buildings	2,521,000 00	
Equipment	204,217 05	
		<hr/> 3,159,417 05
Amount carried forward.....		<hr/> \$5,536,021 09

Schedule B-VI.—Concluded

FIXED ASSETS—Concluded

Amount brought forward.....		\$5,536,021 09
Library:		
Land	\$85,000 00	
Buildings	95,300 00	
Equipment	161,100 00	
		<hr/> 341,400 00
Parks and Playgrounds:		
Land	\$1,724,860 00	
Buildings	209,300 00	
Equipment	58,553 36	
		<hr/> 1,992,713 36
Cambridge Cemetery:		
Land	\$66,900 00	
Buildings	25,100 00	
Equipment	5,000 00	
		<hr/> 97,000 00
Water Works		7,766,151 67
Other land not included in any of the Dept. Schedules.....		55,800 00
		<hr/>
Total Fixed Assets (See B-VII).....		\$15,789,086 12

SCHEDULE B-VII.

GENERAL DEFICIT AND SURPLUS ACCOUNT

Deficits

A Deficit of Current Assets (B-II.), if any.....	
B Surplus of Sinking Funds (B-V.), if any.....	
A Deficit of Trust Fund Assets (B-IV.), if any..	
B Deficit of Sinking Funds Assets (B-V.), viz:	
Net Bonded Debt.....	\$6,319,125 80
	<hr/>
Total of all Deficits.....	\$6,319,125 80

Surplus

A Surplus of Current Assets (B-II.), if any.....	\$1,291,929 87
A Surplus of Contingent Assets (B-III.), if any	51,860 86
A Surplus of Trust Funds (B-IV.), if any.....	
B Surplus of Sinking Funds (B-V.), if any.....	
	<hr/>
Total Surplus, excluding Fixed Assets.....	1,343,790 73
	<hr/>
Excess of Deficits, viz.:	
Total Net Debts of the City.....	\$4,975,335 07

Balance

Total of Fixed Assets:	
Land, Buildings, Equipment (B-VI.).....	\$15,789,086 12
Deduct Total Net Debts of City, as above	4,975,335 07
	<hr/>
Balance of this Account, General Surplus (B-L).....	\$10,813,751 05

SCHEDULE B

No. VIII.

CITY FUNDED DEBT;
CITY SERIAL DEBT
AND OTHER
MISCELLANEOUS TABLES

CITY DEBT

There have been additions to the City Debt during the year as follows:

Serial Loan No. 192—Street Loan, serial bonds, dated June 1, 1923, payable 1924 to 1928, at an annual interest of $4\frac{1}{4}\%$. For the construction of sidewalks as authorized by Section 7 (12), Chapter 44, General Laws.....	\$35,000 00
Serial Loan Nos. 193 and 194—Department Equipment Loan, serial bonds, dated June 1, 1923, payable 1924 to 1928, at an annual interest of $4\frac{1}{4}\%$. For the purchase of additional department equipment as authorized by Section 7 (11), Chapter 44, General Laws.....	85,000 00
Serial Loan Nos. 195 and 196—Street Loan, serial bonds, dated June 1, 1923, payable 1924 to 1933 at an annual interest of $4\frac{1}{4}\%$. For the construction of Munroe and other streets as authorized by Section 7 (6 and 7), Chapter 44, General Laws.....	56,000 00
Serial Loan No. 197—Building Loan, serial bonds, dated June 1, 1923, payable 1924 to 1941 at an annual interest of $4\frac{1}{4}\%$. For the construction of a shelter and athletic building at Russell Field, as authorized by Section 7 (3), Chapter 44, General Laws.....	18,000 00
Serial Loan No. 198—First Street Bridge Loan, serial bonds, dated June 1, 1923, payable 1924 to 1943, at an annual interest of $4\frac{1}{4}\%$. For the construction of a new concrete and iron bridge over Broad Canal and First Street as authorized by Section 7 (5), Chapter 44, General Laws....	26,000 00
Serial Loan Nos. 199 and 200—Sewer Separate System, serial bonds, dated June 1, 1923, payable 1924 to 1953, at an annual interest of $4\frac{1}{4}\%$. For the construction of sewers for surface and storm waters as authorized by Section 9, Chapter 92, General Laws.....	45,000 00
Serial Loan Nos. 201 and 202—Street Loan, serial bonds, dated July 15, 1923, payable 1924 to 1928, at an annual interest of $4\frac{1}{4}\%$. For the construction of Raymond and other streets, as authorized by Section 7 (8 and 12), Chapter 44, General Laws.....	63,000 00
Serial Loan Nos. 203, 204, 205, 206, 207—Street Loan, serial bonds, dated July 15, 1923, payable 1924 to 1933, at an annual interest of $4\frac{1}{4}\%$. For the construction of Main and other streets, as authorized by Section 7 (7), Chapter 44, General Laws.....	225,000 00
Serial Loan No. 208—Schoolhouse Loan, serial bonds, dated July 15, 1923, payable 1924 to 1943, at an annual interest of $4\frac{1}{4}\%$. For the construction of addition to Houghton School, as authorized by Section 7 (4), Chapter 44, General Laws	40,000 00
Serial Loan No. 209—Schoolhouse Loan, serial bonds, dated July 15, 1923, payable 1924 to 1943, at an annual interest of $4\frac{1}{4}\%$. For the construction of addition to Russell School, as authorized by Section 7 (4), Chapter 44, General Laws	40,000 00
Amount carried forward	\$633,000 00

City Debt—Continued

Amount brought forward.....	\$633,000 00
Serial Loan No. 210—Sewer Separate System, serial bonds, dated July 15, 1923, payable 1924 to 1953, at an annual interest of 4%. For the construction of sewers for surface and storm waters, as authorized by Section 9, Chapter 92, General Laws.....	30,000 00
Serial Loan No. 211—Sewer Construction Loan, serial bonds, dated July 15, 1923, payable 1924 to 1953, at an annual interest of 4%. For the construction of sewers for sanitary purposes and for sewage disposal, as authorized by Section 7 (1), Chapter 44, General Laws.....	30,000 00
Total additions to City Debt.....	<u>\$693,000 00</u>

The following Funded Debt has matured and been paid:

Municipal Loan, coupon bonds, issued July 1, 1913, at an annual interest of 4%.....	\$25,000 00
Street Loan, registered bonds, issued April 1, 1903, at an annual interest of 3½ %.....	4,000 00
Street Loan, registered bonds, issued Nov. 2, 1903, at an annual interest of 3½ %.....	12,000 00
Street Loan, coupon bonds, issued July 1, 1913, at an annual interest of 4%.....	20,000 00
Street Loan, coupon bonds, issued July 1, 1913, at an annual interest of 4%.....	37,800 00
Harvard Bridge Loan, coupon bonds, issued August 1, 1893, at an annual interest of 4%.....	10,000 00
Schoolhouse Loan, registered bonds, issued October 1, 1903, at an annual interest of 3½ %..	80,000 00
Building Loan, registered bonds, issued April 1, 1903, at an annual interest of 3½ %.....	3,000 00
Park Loan, registered and coupon, issued February 1, 1894, at an annual interest of 4%....	356,000 00
*Park Loan, issued February 1, 1894, at an annual interest of 4%, not presented for payment before March 31, 1924.....	4,000 00

Total Funded Debt paid.....	\$551,800 00
Serial Bonds have matured and been paid	389,850 00

\$941,650 00

Net decrease in Debt 1923-1924.....	\$248,650 00
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*This \$4,000 00 is credited to Accounts Payable Accounts.

Note: \$7,000 00 Street Serial, due 1922 paid 1923
 250 00 School Serial, due 1922 paid 1923

\$7,250 00

\$500 00 School Serial, due 1923, unpaid
 500 00 Sewer Con. Serial, due 1923, unpaid

\$1,000 00

City Debt—Continued

The following is a statement of the total funded City Debt, with the rates of interest thereon:

CAMBRIDGE BRIDGE LOAN

July 1, 1899 R.....	3½ per cent.—40 yrs.	July 1, 1939.....	\$50,000 00	
July 2, 1900 R.....	3½ “ —40 yrs.	July 2, 1940.....	100,000 00	
Feb. 1, 1901 R.....	3 “ —40 yrs.	Feb. 1, 1941.....	100,000 00	
Nov. 1, 1901 R.....	3½ “ —40 yrs.	Nov. 1, 1941.....	100,000 00	
Aug. 1, 1902 R. & C.....	3½ “ —40 yrs.	Aug. 1, 1942.....	100,000 00	
Jan. 1, 1903 R.....	3½ “ —40 yrs.	Jan. 1, 1943.....	50,000 00	
Apr. 1, 1903 R.....	3½ “ —40 yrs.	Apr. 1, 1943.....	50,000 00	
Aug. 1, 1903 C.....	3½ “ —40 yrs.	Aug. 1, 1943.....	50,000 00	
Jan. 1, 1904 R.....	3½ “ —40 yrs.	Jan. 1, 1944.....	100,000 00	
May 1, 1904 R. & C.....	3½ “ —40 yrs.	May 1, 1944.....	200,000 00	
Aug. 1, 1904 R.....	3½ “ —40 yrs.	Aug. 1, 1944.....	100,000 00	
Sept. 1, 1904 R.....	3½ “ —40 yrs.	Sept. 1, 1944.....	50,000 00	
May 1, 1905 R.....	3½ “ —40 yrs.	May 1, 1945.....	150,000 00	
Dec. 1, 1905 R.....	3½ “ —40 yrs.	Dec. 1, 1945.....	100,000 00	
Aug. 1, 1906 R.....	4 “ —40 yrs.	Aug. 1, 1946.....	150,000 00	
Jan. 1, 1907 R.....	4 “ —40 yrs.	Jan. 1, 1947.....	50,000 00	
July 1, 1907 C.....	4 “ —40 yrs.	July 1, 1947.....	40,000 00	
Oct. 1, 1907 C.....	4 “ —40 yrs.	Oct. 1, 1947.....	15,000 00	
Aug. 1, 1908 R.....	4 “ —40 yrs.	Aug. 1, 1948.....	45,000 00	
July 1, 1910 R.....	4 “ —40 yrs.	July 1, 1950.....	20,000 00	
Dec. 1, 1911 C.....	3½ “ —40 yrs.	Dec. 1, 1951.....	10,000 00	
Mar. 1, 1912 C.....	3½ “ —40 yrs.	Mar. 1, 1952.....	10,000 00	\$1,640,000

BROOKLINE BRIDGE LOAN

Jan. 1, 1906 R.....	3½ per cent.—40 yrs.	Jan. 1, 1946.....	\$20,000 00	
Sept. 1, 1906 R.....	4 “ —40 yrs.	Sept. 1, 1946.....	5,000 00	\$25,000

COMMERCIAL AVENUE BRIDGE

Aug. 1, 1908 R.....	4 per cent.—40 yrs.	Aug. 1, 1946.....		\$50,000
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BUILDING LOAN

Apr. 1, 1904 R.....	3½ per cent.—20 yrs.	Apr. 1, 1924.....	\$25,000 00	
May 1, 1904 R.....	3½ “ —20 yrs.	May 1, 1924.....	5,000 00	
Sept. 1, 1907 R.....	4 “ —20 yrs.	Sept. 1, 1927.....	30,000 00	\$60,000

Amount carried forward..... \$1,775,000 00

City Debt—Continued

Amount brought forward..... \$1,775,000 00

CAMBRIDGE BRIDGE SPECIAL LOAN

(Charles River Dam)

May 1, 1904 R.....	3½ per cent.—30 yrs.	May 1, 1934.....	\$28,000 00
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HOSPITAL LOAN

Aug. 1, 1906 R.....	4 per cent.—20 yrs.	Aug. 1, 1928.....	\$20,000 00
July 1, 1910 C.....	4 " —20 yrs.	July 1, 1930.....	95,000 00
Dec. 1, 1911 R.....	3½ " —20 yrs.	Dec. 1, 1931.....	4,000 00
Mar. 1, 1912 C.....	3½ " —20 yrs.	Mar. 1, 1932.....	25,000 00
			\$144,000 00

METROPOLITAN PARK ASSESSMENT LOAN

Aug. 1, 1902 R.....	3½ per cent.—30 yrs.	Aug. 1, 1932.....	\$46,000 00
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PARK LOAN

Aug. 1, 1895 R.....	4 per cent.—40 yrs.	Aug. 1, 1935.....	\$100,000 00
Feb. 1, 1896 R.....	4 " —40 yrs.	Feb. 1, 1936.....	100,000 00
Aug. 1, 1896 R.....	4 " —30 yrs.	Aug. 1, 1926.....	100,000 00
Oct. 1, 1896 R.....	4 " —30 yrs.	Oct. 1, 1926.....	40,000 00
Sept. 1, 1897 R.....	3½ " —40 yrs.	Sept. 1, 1937.....	100,000 00
Nov. 1, 1897 R.....	3½ " —40 yrs.	Nov. 1, 1937.....	50,000 00
June 1, 1898 R.....	3½ " —40 yrs.	June 1, 1938.....	50,000 00
Aug. 1, 1898 R.....	3½ " —40 yrs.	Aug. 1, 1938.....	100,000 00
Aug. 1, 1899 R.....	3½ " —40 yrs.	Aug. 1, 1939.....	100,000 00
July 2, 1900 R.....	3½ " —40 yrs.	July 2, 1940.....	50,000 00
Nov. 1, 1900 R.....	3½ " —40 yrs.	Nov. 1, 1940.....	50,000 00
Oct. 1, 1901 R.....	3½ " —40 yrs.	Oct. 1, 1941.....	100,000 00
July 1, 1902 R.....	3½ " —40 yrs.	July 1, 1942.....	48,000 00
Apr. 1, 1903 R.....	3½ " —40 yrs.	Apr. 1, 1943.....	50,000 00
Sept. 1, 1904 R.....	3½ " —40 yrs.	Sept. 1, 1944.....	25,000 00
Nov. 1, 1904 R.....	3½ " —40 yrs.	Nov. 1, 1944.....	6,000 00
Apr. 1, 1905 R.....	3½ " —40 yrs.	Apr. 1, 1945.....	5,000 00
May 1, 1905 R.....	3½ " —40 yrs.	May 1, 1945.....	45,000 00
Aug. 1, 1905 R.....	3½ " —40 yrs.	Aug. 1, 1945.....	5,000 00
Sept. 1, 1906 R.....	4 " —40 yrs.	Sept. 1, 1946.....	25,000 00
Oct. 1, 1907 R.....	4 " —40 yrs.	Oct. 1, 1947.....	10,000 00
Aug. 1, 1908 R.....	4 " —40 yrs.	Aug. 1, 1948.....	30,000 00
Nov. 1, 1908 R.....	4 " —40 yrs.	Nov. 1, 1948.....	12,000 00
Jan. 1, 1910 R.....	3½ " —40 yrs.	Jan. 1, 1950.....	8,800 00
Mar. 1, 1911 R.....	3½ " —40 yrs.	Mar. 1, 1951.....	17,000 00
July 1, 1911 R.....	3½ " —40 yrs.	July 1, 1951.....	7,000 00
Dec. 1, 1911 R. & C.....	3½ " —40 yrs.	Dec. 1, 1951.....	6,200 00
			\$1,240,000 00

Amount carried forward..... \$3,233,000 00

City Debt—Continued

Amount brought forward..... \$3,233,000 00

SCHOOLHOUSE LOAN

Apr. 1, 1904 R.....	3½ per cent.—20 yrs.	Apr. 1, 1924.....	\$80,000 00	
Nov. 1, 1904 R.....	3½ “ —20 yrs.	Nov. 1, 1924.....	20,000 00	
Nov. 1, 1904½ R.....	3½ “ —20 yrs.	Nov. 1, 1924.....	6,000 00	
May 1, 1905 R.....	3½ “ —20 yrs.	May 1, 1925.....	20,950 00	
Aug. 1, 1905 R.....	3½ “ —20 yrs.	Aug. 1, 1925.....	20,000 00	
Aug. 1, 1906 R.....	4 “ —20 yrs.	Aug. 1, 1926.....	33,000 00	
Nov. 1, 1906 R.....	4 “ —20 yrs.	Nov. 1, 1926.....	14,000 00	
Dec. 1, 1908 R.....	3½ “ —20 yrs.	Dec. 1, 1928.....	40,000 00	
Jan. 1, 1910 R. & C.....	3½ “ —20 yrs.	Jan. 1, 1930.....	93,500 00	
July 1, 1910 R.....	4 “ —20 yrs.	July 1, 1930.....	120,000 00	
Mar. 1, 1911 R.....	3½ “ —20 yrs.	Mar. 1, 1931.....	5,000 00	
Mar. 1, 1912 C.....	3½ “ —20 yrs.	Mar. 1, 1932.....	2,500 00	
Feb. 1, 1913 C.....	3½ “ —20 yrs.	Feb. 1, 1933.....	5,000 00	
				\$457,950 00

SEWER LOAN (Construction General)

Aug. 1, 1894 R. & C.....	4 per cent.—30 yrs.	Aug. 1, 1924.....	\$75,000 00	
Oct. 1, 1895 R.....	4 “ —30 yrs.	Oct. 1, 1925.....	60,000 00	
Aug. 1, 1901 R.....	3½ “ —30 yrs.	Aug. 1, 1931.....	10,000 00	
Oct. 1, 1903 R.....	3½ “ —30 yrs.	Oct. 1, 1933.....	20,000 00	
May 1, 1904 R.....	3½ “ —30 yrs.	May 1, 1934.....	40,000 00	
Nov. 1, 1904 R.....	3½ “ —30 yrs.	Nov. 1, 1934.....	5,000 00	
May 1, 1905 R.....	3½ “ —30 yrs.	May 1, 1935.....	15,000 00	
May 1, 1906 R.....	4 “ —30 yrs.	May 1, 1936.....	10,000 00	
Apr. 1, 1907 R.....	4 “ —30 yrs.	Apr. 1, 1937.....	35,000 00	
Dec. 1, 1908 R.....	4 “ —30 yrs.	Dec. 1, 1938.....	5,000 00	
Jan. 1, 1910 R. & C.....	3½ “ —30 yrs.	Jan. 1, 1940.....	23,000 00	
May 1, 1910 R.....	4 “ —30 yrs.	May 1, 1940.....	15,000 00	
Mar. 1, 1911 R.....	3½ “ —30 yrs.	Mar. 1, 1941.....	10,000 00	
July 1, 1911 R.....	3½ “ —30 yrs.	July 1, 1941.....	10,000 00	
Feb. 1, 1913 C.....	3½ “ —30 yrs.	Feb. 1, 1943.....	10,000 00	
July 1, 1913 C.....	4 “ —30 yrs.	July 1, 1943.....	20,000 00	
July 1, 1913 C.....	4 “ —30 yrs.	July 1, 1943.....	5,000 00	\$368,000 00

SEWER LOAN (Improved Sewerage)

Nov. 1, 1899 R.....	3½ per cent.—30 yrs.	Nov. 1, 1929.....	\$42,000 00	
July 2, 1900 R.....	3½ “ —30 yrs.	July 2, 1930.....	100,000 00	
Aug. 1, 1901 R.....	3½ “ —30 yrs.	Aug. 1, 1931.....	100,000 00	
Nov. 1, 1902 R.....	3½ “ —30 yrs.	Nov. 1, 1932.....	20,000 00	
Apr. 1, 1903 R.....	3½ “ —30 yrs.	Apr. 1, 1933.....	40,000 00	
May 1, 1904 R.....	3½ “ —30 yrs.	May 1, 1934.....	47,000 00	
May 1, 1905 R.....	3½ “ —30 yrs.	May 1, 1935.....	50,000 00	\$399,000 00

Amount carried forward..... \$4,459,950 00

City Debt—Continued

Amount brought forward..... \$4,459,950 00

SEWER LOAN (Separate System of Drainage)

May 1, 1904 R.....	3½	per cent.—30 yrs.	May 1, 1934.....	\$25,000 00	
May 1, 1905 R.....	3½	" —30 yrs.	May 1, 1935.....	25,000 00	
May 1, 1906 R.....	4	" —30 yrs.	May 1, 1936.....	25,000 00	
Sept. 1, 1906 R.....	4	" —30 yrs.	Sept. 1, 1936.....	25,000 00	
Apr. 1, 1907 R.....	4	" —30 yrs.	April 1, 1937.....	25,000 00	
Nov. 1, 1907 R.....	4	" —30 yrs.	Nov. 1, 1937.....	10,000 00	
Aug. 1, 1908 R.....	4	" —30 yrs.	Aug. 1, 1938.....	25,000 00	
Dec. 1, 1908 R.....	4	" —30 yrs.	Dec. 1, 1938.....	12,000 00	
July 1, 1909 R.....	3½	" —30 yrs.	July 1, 1939.....	2,000 00	
Jan. 1, 1910 C.....	3½	" —30 yrs.	Jan. 1, 1940.....	23,000 00	
May 1, 1910 R.....	4	" —30 yrs.	May 1, 1940.....	10,000 00	
July 1, 1910 R.....	4	" —30 yrs.	July 1, 1940.....	15,000 00	
May 1, 1911 R.....	3½	" —30 yrs.	Mar. 1, 1941.....	10,000 00	
Dec. 1, 1911 C.....	3½	" —30 yrs.	Dec. 1, 1941.....	10,000 00	
Sept. 1, 1912 C.....	3½	" —30 yrs.	Sept. 1, 1942.....	15,000 00	
Feb. 1, 1913 C.....	3½	" —30 yrs.	Feb. 1, 1943.....	10,000 00	\$267,000 00

STREET LOAN

Dec. 1, 1904 R.....	3½	per cent.—20 yrs.	Sept. 1, 1924.....	\$79,000 00	
Nov. 1, 1904 R.....	3½	" —20 yrs.	Nov. 1, 1924.....	6,500 00	
May 1, 1905 R.....	3½	" —20 yrs.	May 1, 1925.....	84,000 00	
Nov. 1, 1905 R.....	3½	" —20 yrs.	Nov. 1, 1925.....	1,500 00	
May 1, 1906 R. & C.....	4	" —20 yrs.	May 1, 1926.....	100,000 00	
Aug. 1, 1906 R.....	4	" —20 yrs.	Aug. 1, 1926.....	22,000 00	
Apr. 1, 1907 R.....	4	" —20 yrs.	Apr. 1, 1927.....	40,000 00	
June 1, 1907 R.....	4	" —20 yrs.	June 1, 1927.....	19,000 00	
Oct. 1, 1907 R.....	4	" —20 yrs.	Sept. 1, 1927.....	25,000 00	
Nov. 1, 1907 R.....	4	" —20 yrs.	Nov. 1, 1927.....	10,000 00	
Dec. 1, 1908 C.....	4	" —20 yrs.	Jan. 1, 1928.....	34,000 00	
Aug. 1, 1908 R.....	4	" —20 yrs.	Aug. 1, 1928.....	42,000 00	
Mar. 1, 1909 R.....	3½	" —20 yrs.	Mar. 1, 1929.....	20,000 00	
Jan. 1, 1910 R. & C.....	3½	" —20 yrs.	Jan. 1, 1930.....	13,500 00	
July 1, 1910 R.....	4	" —20 yrs.	July 1, 1930.....	12,000 00	
Apr. 1, 1911 R.....	3½	" —20 yrs.	Mar. 1, 1931.....	27,000 00	
May 1, 1911 R.....	3½	" —20 yrs.	July 1, 1931.....	45,000 00	
Oct. 1, 1912 R. & C.....	3½	" —20 yrs.	Sept. 1, 1932.....	6,200 00	
Dec. 1, 1913 C.....	3½	" —20 yrs.	Feb. 1, 1933.....	6,250 00	
July 1, 1913 C.....	4	" —20 yrs.	July 1, 1933.....	4,000 00	
Aug. 1, 1913 C.....	4	" —20 yrs.	Aug. 1, 1933.....	3,700 00	
Aug. 1, 1913 C.....	4	" —20 yrs.	Aug. 1, 1933.....	14,300 00	\$504,950 00

Amount carried forward..... \$5,321,900 00

City Debt—Continued

Amount brought forward..... \$5,321,900 00

LAND FOR PLAYGROUND LOAN

July 1, 1910 R.....	4	per cent.—30 yrs.	July 1, 1940.....	\$50,000 00	
July 1, 1911 R.....	3½	“ —30 yrs.	July 1, 1941.....	15,000 00	
Dec. 1, 1911 C.....	3½	“ —30 yrs.	Dec. 1, 1941.....	30,000 00	\$95,000 00

Total Funded Debt.....\$5,416,900.00

SERIAL LOANS

INSIDE DEBT LIMIT

Street Loans, due 1924 to 1935.....	\$1,317,550 00
School House Loans, due 1924 to 1944.....	498,250 00
Building Loans, due 1924 to 1943.....	328,500 00
Sewer Construction Loans, due 1924 to 1954.....	318,500 00
Department Equipment Loans, due 1924 to 1928	138,000 00
First Street Bridge Loan, due 1924 to 1943.....	102,000 00
	<hr/>
	\$2,702,800 00

OUTSIDE DEBT LIMIT

Playground Loans, due 1924 to 1946.....	\$20,600 00
Sewer Separate Systems Loans, due 1924 to 1954	206,000 00
Hospital Loans, due 1924 to 1942.....	205,000 00
Bridge Loans, due 1924 to 1946.....	44,000 00
Park Loans, due 1924 to 1945.....	66,000 00
	<hr/>
	\$541,600 00

Total City Debt, March 31, 1923..... \$8,661,300 00

SERIAL LOANS
Inside Debt Limit

Financial Year April 1 to March 31, in which the loans are due.	Street	School	Building	Sewer Con- struction	Department Equipment	First St. Bridge	Totals
1924-25.....	\$272,050 00	\$32,500 00	\$25,500 00	\$14,500 00	\$38,000 00	\$6,000 00	\$388,550 00
1925-26.....	235,050 00	32,500 00	25,500 00	14,500 00	38,000 00	6,000 00	351,550 00
1926-27.....	195,250 00	32,500 00	25,500 00	14,000 00	28,000 00	6,000 00	301,250 00
1927-28.....	162,650 00	32,500 00	24,500 00	14,000 00	17,000 00	6,000 00	256,650 00
1928-29.....	122,650 00	32,000 00	24,500 00	13,500 00	17,000 00	6,000 00	215,650 00
1929-30.....	99,400 00	32,000 00	21,500 00	13,500 00		6,000 00	172,400 00
1930-31.....	84,900 00	32,000 00	21,500 00	13,500 00		5,000 00	156,900 00
1931-32.....	69,400 00	30,000 00	21,500 00	13,500 00		5,000 00	139,400 00
1932-33.....	46,400 00	30,000 00	21,500 00	13,500 00		5,000 00	116,400 00
1933-34.....	29,400 00	30,000 00	19,500 00	13,500 00		5,000 00	97,400 00
1934-35.....	400 00	26,750 00	19,500 00	13,500 00		5,000 00	65,150 00
1935-36.....		22,500 00	19,500 00	13,000 00		5,000 00	60,000 00
1936-37.....		22,000 00	13,500 00	13,000 00		5,000 00	53,500 00
1937-38.....		22,000 00	13,500 00	12,500 00		5,000 00	53,000 00
1938-39.....		17,000 00	7,500 00	12,000 00		5,000 00	41,500 00
1939-40.....		17,000 00	7,500 00	11,000 00		5,000 00	40,500 00
1940-41.....		17,000 00	7,500 00	11,000 00		5,000 00	40,500 00
1941-42.....		17,000 00	5,000 00	10,000 00		5,000 00	37,000 00
1942-43.....		17,000 00	4,000 00	10,000 00		5,000 00	36,000 00
1943-44.....		4,000 00		10,000 00		1,000 00	15,000 00
1944-45.....				10,000 00			10,000 00
1945-46.....				9,000 00			9,000 00
1946-47.....				8,500 00			8,500 00
1947-48.....				7,500 00			7,500 00
1948-49.....				7,000 00			7,000 00
1949-50.....				5,500 00			5,500 00
1950-51.....				4,000 00			4,000 00
1951-52.....				2,000 00			2,000 00
1952-53.....				1,000 00			1,000 00
1953-54.....							
	\$1,317,550 00	\$498,250 00	\$328,500 00	\$318,500 00	\$138,000 00	\$102,000 00	\$2,702,800 00

City Debt—Continued

SERIAL LOANS
Outside Debt Limit

Financial Year April 1 to March 31, in which the loans are due.	Play- grounds	Sewer	Hospital	Bridge	Park	Total City Serials "Outside"	Water Serial
1924-25.....	\$1,300 00	\$8,500 00	\$15,500 00	\$2,000 00	\$4,000 00	\$31,300 00	\$45,500 00
1925-26.....	1,300 00	8,500 00	15,500 00	2,000 00	4,000 00	31,300 00	45,500 00
1926-27.....	1,300 00	8,500 00	15,500 00	2,000 00	4,000 00	31,300 00	33,000 00
1927-28.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	33,000 00
1928-29.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	33,000 00
1929-30.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	33,000 00
1930-31.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	32,000 00
1931-32.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	32,000 00
1932-33.....	1,300 00	7,500 00	15,500 00	2,000 00	4,000 00	30,300 00	32,000 00
1933-34.....	1,300 00	7,500 00	15,500 00	2,000 00	3,000 00	29,300 00	31,000 00
1934-35.....	1,300 00	7,500 00	15,500 00	2,000 00	3,000 00	29,300 00	28,500 00
1935-36.....	1,300 00	7,500 00	12,500 00	2,000 00	3,000 00	26,300 00	28,500 00
1936-37.....	500 00	7,500 00	8,000 00	2,000 00	3,000 00	21,000 00	27,500 00
1937-38.....	500 00	7,500 00	8,000 00	2,000 00	3,000 00	21,000 00	27,500 00
1938-39.....	500 00	7,500 00	3,000 00	2,000 00	3,000 00	16,000 00	25,500 00
1939-40.....	500 00	7,500 00	3,000 00	2,000 00	3,000 00	16,000 00	25,500 00
1940-41.....	500 00	7,500 00	2,000 00	2,000 00	3,000 00	13,000 00	25,500 00
1941-42.....	500 00	7,500 00	2,000 00	2,000 00	2,000 00	12,000 00	25,500 00
1942-43.....	500 00	7,500 00	2,000 00	2,000 00	2,000 00	12,000 00	25,500 00
1943-44.....	500 00	7,500 00	2,000 00	2,000 00	1,000 00	11,000 00	12,500 00
1944-45.....	500 00	7,500 00	2,000 00	2,000 00	1,000 00	11,000 00	12,500 00
1945-46.....	500 00	6,000 00		2,000 00		8,500 00	11,000 00
1946-47.....		5,500 00				5,500 00	11,000 00
1947-48.....		5,500 00				5,500 00	11,000 00
1948-49.....		5,500 00				5,500 00	11,000 00
1949-50.....		5,500 00				5,500 00	11,000 00
1950-51.....		5,500 00				5,500 00	11,000 00
1951-52.....		5,500 00				5,500 00	11,000 00
1952-53.....		4,000 00				5,500 00	
1953-54.....		2,500 00				4,000 00	
	\$20,600 00	\$206,000 00	\$205 000 00	\$44,000 00	\$66,000 00	\$541,600 00	\$680,500 00

City Debt—Continued

Following is a statement of the total Funded Water Debt of the City, with rates of interest thereon:

Date of Issue	Rate of Interest Term	When due	Amount	Total
Apr. 1, 1894 C.....	4 per cent.—30 yrs.	Apr. 1, 1924.	\$300,000 00	
May 1, 1905 R.....	3½ “ —20 yrs.	May 1, 1925.	46,000 00	
May 1, 1906 R. & C	4 “ —30 yrs.	May 1, 1936.	280,000 00	
June 1, 1907 R.....	4 “ —30 yrs.	June 1, 1937..	49,000 00	
July 1, 1907 C.....	4 “ —30 yrs.	July 1, 1937.	25,000 00	
June 1, 1908 R.....	4 “ —20 yrs.	June 1, 1928.	20,000 00	
Aug. 1, 1908 R.....	4 “ —30 yrs.	Aug. 1, 1938.	17,000 00	
Jan. 1, 1910 C.....	3½ “ —20 yrs.	Jan. 1, 1930..	5,000 00	
Feb. 1, 1910 R.....	3½ “ —20 yrs.	Feb. 1, 1930.	5,000 00	
Mar. 1, 1911 R.....	3½ “ —30 yrs.	Mar. 1, 1941.	16,500 00	
Dec. 1, 1911 C.....	3½ “ —30 yrs.	Dec. 1, 1941.	10,000 00	\$773,500 00

CITY FUNDED DEBT

	April 1, 1923	April 1, 1924	Increase	Decrease
Funded City Debt.....	\$5,968,700 00	\$5,416,900 00		\$551,800 00
Sinking Funds for Funded City Debt.....	3,421,720 75	3,113,010 39		308,710 36
Net Funded City Debt.....	\$2,546,979 25	\$2,303,889 61		\$243,089 64
Serial City Debt.....	2,941,250 00	3,244,400 00	\$303,150 00	
Net City Debt.....	\$5,488,229 25	\$5,548,289 61		\$60,060 36
Funded Water Debt.....	\$773,500 00	\$773,500 00		
Sinking Funds for Funded Water Debts.....	655,708 88	683,163 81	\$27,454 93	
Net Funded Water Debt.....	\$117,791 12	\$90,336 19		\$27,454 93
Serial Water Debt.....	726,000 00	680,500 00		\$45,500 00
Net Water Debt.....	\$843,791 12	\$770,836 19		\$72,954 93

\$500 00 not presented for payment until April, 1924.

City Debts—Concluded

RECAPITULATION

Amount of City Loans upon which interest is at 5½%	\$168,000 00	
Amount of City Loans upon which interest is at 5%	392,500 00	
Amount of City Loans upon which interest is at 4½%	748,050 00	
Amount of City Loans upon which interest is at 4¼%	633,000 00	
Amount of City Loans upon which interest is at 4%	3,081,300 00	
Amount of City Loans upon which interest is at 3½%	3,538,450 00	
Amount of City Loans upon which interest is at 3%	100,000 00	
		<hr/>
Total Funded and Serial City Debt.....	\$8,661,300 00	
Amount of Water Loans upon which interest is at 4½%	\$297,000 00	
Amount of Water Loans upon which interest is at 4%	1,021,500 00	
Amount of Water Loans upon which interest is at 3½%	135,500 00	
		<hr/>
	1,454,000 00	
		<hr/>
Total Funded and Serial Water Debt.....	\$10,115,300 00	

City Debt—Continued
Temporary Loans for the Past Ten Years and Interest upon the same.

Year	Temporary Loan	Interest paid upon Loan	Year	Temporary Loan	Interest paid upon Loan
1914	\$1,145,000 00	\$13,518 04	1919	\$2,100,000 00	\$60,784 68
1915	1,650,000 00	15,398 66	1920	2,650,000 00	56,699 17
1916	1,650,000 00	23,921 76	1921	3,250,000 00	69,881 48
1917	3,215,000 00	47,893 19	1922	3,200,000 00	53,546 98
1918	2,050,000 00	60,660 91	1923	3,400,000 00	55,965 68

ANNUITIES AND TRUST FUNDS

Section 53—Chapter 41—General Laws

PROVIDING FOR THE AUDITING OF CERTAIN TRUST FUNDS AND
ACCOUNTS

Section 53. Town auditors shall at least once every year, and so much oftener as they deem necessary, audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeathed or given in trust for public uses for the benefit of the town or any part thereof, or for the benefit of the inhabitants of the town or of any part thereof, and examine and estimate the funds, securities and evidences of property held by such trustees. Said trustees shall give said auditors free access to their accounts, funds, securities and evidences of property; and any such trustee refusing to exhibit the same shall be punished by a fine of not less than fifty nor more than two hundred dollars. Town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and city treasurer or to the selectmen and town treasurer.

Under the provisions of the foregoing Act I hereby certify that I have examined the accounts, vouchers and securities belonging to the Trust Funds held for public uses, and find them correct and in excellent condition.

Attest:

CHARLES H. THURSTON, City Auditor.

April 1, 1924.

ANNUITIES

	Original Gift	Annual Interest
Dowse Institute Annuity.....	\$5,000	\$300
Daniel White Charity Annuity.....	10,000	600
Sanders Temperance Annuity.....	10,000	600
	\$25,000	\$1,500

DANIEL WHITE CHARITY (\$10,360.00)

Established by Daniel White, of Charlestown, in his lifetime for the purchase and distribution of fuel among the deserving poor of Cambridge, his native city.

May 15, 1863, he appointed four trustees, with the Mayor of Cambridge, ex-officio, to distribute not exceeding \$300 per year. The trustees fill any vacancies in their number, in case of death, etc. Ex-Mayor J. Warren Merrill added a bequest in cash and stocks to the value of \$5,360, thus making the principal \$10,360. The present permanent members are George E. Saunders, Walter F. Earle, Edmund Reardon and Fred B. Wheeler, and the fund is invested by the trustees.

Annuities—Continued

Report of the Treasurer of the Daniel White Charity Fund

Receipts:

Amount of Fund, March 31, 1923.....		\$10,689 46
Interest received on city notes.....	\$500 00	
Interest received on bank balance.....	16 38	
Cash balance at beginning of year.....	329 46	
	<hr/>	
	\$845 84	

Payments:

Paid for fuel for poor.....	\$338 45
Cash balance at close of year.....	507 39
	<hr/>
	\$845 84

Principal	\$10,000 00
Cash in principal	360 00
Cash balance in bank.....	507 39
	<hr/>
	\$10,867 39

Amount of Fund, March 31, 1924.....	\$10,867 39
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THE DOWSE INSTITUTE (10,000)

The executors of Thomas Dowse, under a discretionary power in his will, gave to the city, on June 30, 1858, the sum of ten thousand dollars for an annual course of lectures, the city agreeing to pay to the trustees of said institute interest thereon at the rate of six per cent. per annum. The trustees consist of three permanent members, with the Mayor and the President of the City Council, for the time being. The original permanent members were appointed by the executors, and the board fills its own vacancies.

Report of the Treasurer of the Dowse Institute Fund

Receipts:

Bank balance, March 31, 1923.....	\$269 26
Received of City two years' interest.....	600 00
Received as interest on deposit with Cambridge Trust Co.	3 70
	<hr/>
	\$872 96

Payments, April 1, 1923, to March 31, 1924:

T. R. Glover, lectures.....	\$500 00
Printing and miscellaneous items.....	125 38
	<hr/>
	\$625 38
Balance in bank, March 31, 1924.....	247 58
	<hr/>
	\$872 96

THE SANDERS TEMPERANCE ANNUITY (\$11,100)

The sum was given to the City by the will of Charles Sanders, of Cambridge, who died April 7, 1864, for the support of a missionary to promote the cause of temperance. The trustees consist of the Mayor and President of the City Council. The City pays a missionary \$600 a year to carry out the provisions of the will.

On January 26, 1921, the trustees appointed Bernard J. Brogan to the office of City Missionary, said appointment to take effect February 1, 1921.

Annuities—Continued

THE HOPKINS FUND (£500)

Edward Hopkins died in London, England, in 1657 or 1658, leaving £500 to be used, upon the death of his widow, to aid a college and school in New England. The Court of Chancery gave it to Harvard College and a school in Cambridge. One-fourth of the net income is paid annually to the City for classical instruction in the Latin School. The trustees are a corporation established in Boston.

Treasurer's Report of Hopkins Fund

Amount on hand, March 31, 1923.....		\$284 24
Interest accumulations on deposit.....		11 17
Received from Treasurer of Hopkins Fund..		947 98
		<hr/>
		\$1,243 39
Paid to individuals by vote School Committee.....	\$674 94	
Paid to the City of Cambridge for tuition.....	400 00	
	<hr/>	\$1,074 94
Balance, March 31, 1924, Harvard Trust Company.....		168 45
		<hr/>
		\$1,243 39

HENRY F. LEHAN, City Treasurer.

March 31, 1924.

THE TRUST FUNDS

CEMETERY FUND FOR PERPETUAL CARE OF LOTS

Held in trust by the City comprising sums received from the proprietors of lots in Cambridge Cemetery for the perpetual care of their lots therein. The fund is almost all invested in City of Cambridge registered bonds. First established in 1860.

Amount of Bonds in fund, March 31, 1923.....	\$148,150 00	
Amount of Bonds purchased to March 31, 1924....	7,000 00	
	<hr/>	\$155,150 00

CASH ACCOUNT

Dr.

Cash on hand, March 31, 1923.....	\$554 77	
Received from proprietors of lots for perpetual care	9,685 78	
Received from interest on investments.....	6,337 16	
Received from discount on bonds purchased.....	73 13	
	<hr/>	\$16,650 84

Cr.

Cash paid for bonds purchased.....	\$7,000 00	
Paid accrued interest on bonds purchased.....	121 83	
Paid to Cemetery Trustees for care of lots in perpetual care	6,215 33	
Balance on hand, March 31, 1924.....	3,313 68	
	<hr/>	\$16,650 84

The Trust Funds—Continued

Registered Bonds	\$155,150 00	
Deposit in Harvard Trust Co.....	3,313 68	
		\$158,463 68
Fund for Perpetual Care.....	\$158,011 68	
Fund for Deeds in Trust.....	452 00	
		\$158,463 68

CEMETERY FUND: DEEDS IN TRUST

Held in trust by the City, comprising sums received from the proprietors of lots in Cambridge Cemetery for the furtherance of certain trusts mentioned in conveyances of lots to the City in trust.

The fund amounts to \$452.00, and was first established March 11, 1901. Included in investment of Perpetual Care Fund..... \$452 00

THE BRIDGE CHARITABLE FUND

Founded by the late Levi Bridge of Cambridge, in his lifetime, by a deed of trust dated August 12, 1875, and upon his death (April 15, 1876), the amount of said fund came into the hands of the City. In October, 1877, Mr. Samuel F. Bridge, a relative of the founder, gave a sum sufficient to double the amount. When the fund reached two thousand dollars, one-third of the income was to be added to the principal and two-thirds paid over annually to the Overseers of the Poor, to be expended for the deserving poor of Cambridge. The trustees consist of the Mayor and the President of the City Council. The City Treasurer is custodian of the Fund.

Amount of Fund, March 31, 1923.....		\$2,939 75
Interest to March 31, 1924.....	\$141 27	
Two-thirds income paid to Overseers of the Poor	94 18	
		47 09
One-third income paid to Fund.....		
Balance deposited in Central Trust Co., March 31, 1924.....		\$2,986 84

Two-thirds of the income amounting to \$94.18 was paid to the Overseers of the Poor, and the balance, \$47.09, was added to the principal, leaving a balance of \$2,986.84 in the hands of the City Treasurer. Said sum is deposited in the Central Trust Company and bears interest at the rate of four per cent. per annum.

HENRY F. LEHAN, City Treasurer.

March 31, 1924.

CITIZENS' SUBSCRIPTION FUND (\$5,500)

In 1889, a committee of citizens raised by subscription a fund to enable the trustees to purchase a large number of books at the time the new Public Library building was opened. The unexpended balance (fifty-five hundred dollars) was invested and the income is used for the same purpose.

Receipts	\$370 21
Expenditures	285 14
Balance in bank March 31, 1924.....	\$85 07

The Trust Funds—Continued

CITIZENS' SUBSCRIPTION FUND (\$5,500)

The principal is invested in Cambridge Sewer Bond, No. 47....	\$500 00	
Liberty Bonds, 4%.....	5,000 00	
		<hr/>
		\$5,500 00

CUMMINGS LEGACY (\$2,000)

As provided in the will of Daniel P. Cummings, who died May 3, 1889, the sum of two thousand dollars was paid over to the trustees of the Public Library, the annual income to be expended by said trustees in the purchase of non-sectarian books for the Public Library.

Balance on deposit, March 31, 1923.....	\$46 64	
Receipts	83 65	
		<hr/>
		\$130 29
Expenditures	\$87 13	
Adjusting entry	33 67	
		<hr/>
		120 80
		<hr/>
Balance on deposit, March 31, 1924.....		\$9 49
The principal is invested in 4% Liberty Bonds.....		\$2,000 00

FAY LEGACY (\$1,000)

In accordance with the provisions of the will of Isaac Fay, who died December 29, 1872, the sum of one thousand dollars was paid to the trustees of the Dana Library (now the Cambridge Library) for the time being, "which sum shall be safely invested by said trustees, and the income thereof appropriated to the purchase of books for said Library."

Balance on deposit, March 31, 1923.....	\$8 67	
Receipts	42 50	
Adjusting entry	2 50	
		<hr/>
		\$53 67
Expenditures		50 60
		<hr/>
Balance on deposit, March 31, 1924.....		\$3 07
The principal is invested in 3% Liberty Bonds.....		\$1,000 00

WILLIAM E. SAUNDERS FUND (\$8,264.48)

In accordance with the will of Abigail L. Prentiss, the residue, after the termination of certain annuities, was paid to the Trustees of the Cambridge Public Library, the annual income to be used for the purchase of books to be placed in the William E. Saunders Alcove, and for the care of same. This alcove is assigned to books on genealogy.

Balance on deposit, March 31, 1923.....	\$360 31	
Receipts	336 35	
Adjusting entry March 31, 1924.....	50 96	
		<hr/>
		\$747 62
Expenditures		235 49
		<hr/>
Balance on deposit, March 31, 1924.....		\$512 13
The principal is invested in 3½% Liberty Bonds		7,000 00
Deposited in Cambridgeport Savings Bank.....		752 35
		<hr/>
		\$8,264 48

March 31, 1924.

The Trust Funds—Continued

JAMES A. WOOLSON FUND (\$5,000)

By the bequest of James A. Woolson, the sum of five thousand dollars was paid to the Trustees of the Cambridge Public Library, the income only to be used for the purchase of books. In each book purchased there is placed an appropriate book-plate.

Balance on deposit, March 31, 1923.....	\$711 44	
Receipts	209 14	
		\$920 58
Expenditures		338 86
Balance on deposit, March 31, 1924.....		\$581 72
The principal is invested in 3½ % Liberty Bonds.....		\$5,000 00

EDWARD H. WHORF FUND

Balance on deposit, March 31, 1923.....	\$348 24	
Receipts	120 00	
Adjusting entry	38 75	
		\$506 99
Expenditures		40 22
Balance on deposit, March 31, 1924.....		\$466 77
The principal is invested in three American Telephone and Telegraph Company bonds, Nos. 9755, 9756 and 9759.....		\$3,000 00

WILLIAM PENN HARDING FUND (\$1,000)

By a bequest to the City, on behalf of the Public Library, the sum of \$1,000, in accordance with the will of William Penn Harding, the money was turned over to the City Treasurer. The annual income shall be paid to the Trustees of the Public Library and is to be expended in the purchase of recent books on science, art or travel of a popular and instructive character. Said bequest shall be designated the William Penn Harding Fund, which designation shall be printed in all the books so purchased.

Adjusting entry March 31, 1924.....	\$43 86	
Receipts	50 00	
		\$93 86
Expenditures to March 31, 1924.....	39 39	
Adjusting entry March 31, 1924.....	43 65	
		83 04
Balance on deposit March 31, 1924.....		\$10 82
Principal deposited in East Cambridge Savings Bank.....		\$1,000 00
Treasurer's Report of the William Penn Harding Fund		
March 31, 1914—Deposited in East Cambridge Savings Bank		\$1,000 00
March 31, 1924—The interest on said fund, amounting to \$50.00, was paid to the trustees of the Public Library, in accordance with the provision of the gift.		
The passbook of the East Cambridge Savings Bank shows that on March 31, 1924, the amount on deposit was....		\$1,000 00

MEHITABLE C. C. WILSON FUND

Balance on deposit, March 31, 1923.....	\$804 92	
Receipts	37 64	
		\$842 56
Balance on deposit, March 31, 1924.....		\$842 56

The Trust Funds—Continued

ABIGAIL W. HOWE FUND

Adjustment March 31, 1924.....	\$37 50	
Receipts	127 50	
		\$165 00
Expenditures		86 99
		<hr/>
Balance on deposit March 31, 1924.....		\$78 01
		<hr/>
Principal in 3½% Liberty Bonds.....		\$3,000 00

SARAH E. RUSSELL FUND (\$814.41)

As provided in the will of Sarah E. Russell of Cambridge, who died October 6, 1897, the sum of eight hundred fourteen dollars and forty-one cents was paid to the City by the executors of the will, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almhouse." Mrs. Russell was the widow of Hon. Charles Theodore Russell, and the mother of Hon. William E. Russell, each of whom served the city as Mayor.

Amount of deposit, March 31, 1923.....	\$814 41
Interest to March 31, 1924.....	37 04
	<hr/>
	\$851 45
Amount paid as per provision on bequest, December 12, 1923	37 04
	<hr/>
Balance in Cambridgeport Savings Bank, March 31, 1924.....	\$814 41

TREASURER'S REPORT OF THE SARAH E. RUSSELL FUND

The amount of the bequest was \$814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations, amounting to \$37.04 to December 1, 1923, have been paid to Mr. John T. Shea, Superintendent of the City Home, and were used as stipulated in the will of Mrs. Russell.

HENRY F. LEHAN, City Treasurer.

March 31, 1924.

JOHN WESLEY FREESE FUND (\$126.43)

This is a fund of \$89.36 bequeathed by the late John Wesley Freese in November, 1914. This sum is to accumulate for twenty years, after which time not more than three-fourths of the annual income is to be expended for books or works of art for the Houghton School.

TREASURER'S REPORT, JOHN WESLEY FREESE FUND

March 31, 1923—Deposit Cambridgeport Savings Bank.....	\$126 43
March 31, 1924—Interest on fund to date.....	5 74
	<hr/>
March 31, 1924—Amount deposited in bank.....	\$132 17

DONATION OF A CAMBRIDGE CITIZEN FUND

Made to the Mayor in 1923

A fund created by a citizen of Cambridge, the income to be used in part for the work of Americanization and the balance for the purchase of books, for the library.

Amount of Fund, Oct. 10, 1923.....	\$3,000 00
------------------------------------	------------

The Trust Funds—Concluded

TAILINGS ACCOUNT TRUST FUND

This fund consists of various amounts due on payrolls and sundry drafts, which have remained in the hands of the Treasurer, awaiting payment to persons properly entitled to the same.

The amount of the Fund, March 31, 1923.....	\$5,261 57	
Interest on Deposit to March 31, 1924.....	131 30	
	<hr/>	
	\$5,392 87	
Balance on deposit Harvard Trust Co., March 31, 1924.....		\$5,392 87

CITY AUDITOR'S STATEMENT OF PROVISIONS OF SECTION 54,
CHAPTER 41—GENERAL LAWS

Under the provisions of Section 54, Chapter 41, General Laws, I hereby certify that I have this day examined the accounts, vouchers and securities belonging to the within Trust Funds, held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON, City Auditor.

March 31, 1924.

TAXES

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, April 1, 1923, was as follows:

Valuation of real estate	\$133,393,800 00
Valuation of personal	18,867,800 00
	<hr/>
	\$152,261,600 00
Assessed at \$30.00 per \$1,000.....	\$4,552,621 84
Polls at \$2.00.....	67,932 00
	<hr/>
	\$4,620,553 84

The tax is divided as follows:

For city purposes*	\$3,707,291 93
Deficit in Overlays of previous years.....	6,671 65
Overlay	52,445 67
	<hr/>
	\$3,766,409 25

State assessments:

State	\$335,040 00
Sewer	157,828 01
Parks	105,664 43
Charles River Basin	17,711 21
Charles River Bridge, on account of bridge	24,920 09
Alewife Brook	4,131 01
Smoke nuisance	695 46
Prevention of fires.....	1,468 72
Rapid transit	504 93
	<hr/>
	647,963 86

County assessments	<hr/>
	\$4,414,373 11
	206,180 73

	<hr/>
	\$4,620,553 84
Increase in real estate valuation.....	\$4,597,600 00
Increase in personal valuation.....	270,384 80
	<hr/>
Increase in real and personal valuation over 1922.....	\$4,867,984 80
Increase of 419 polls since last year.	

*To meet the City expenses the estimate of income from various departments is added to this sum raised by taxation.

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of polls, dwellings, and rate of taxation for the past twenty years:

Year	Polls	Personal	Real Estate	Total	Rate per \$1,000
1902	25,680	17,742,985	80,396,900	98,139,885	18 30
1903	25,749	17,708,510	87,063,400	104,771,910	16 90
1904	25,968	17,346,500	87,481,100	104,827,600	17 90
1905	26,696	15,994,100	87,851,500	103,845,600	19 00
1906	26,434	16,550,235	88,603,000	105,153,235	18 60
1907	26,064	17,773,990	89,235,300	107,009,290	18 80
1908	25,815	16,854,775	90,026,300	106,881,075	20 10
1909	25,898	16,118,635	90,839,500	106,958,135	21 00
1910	26,660	18,774,935	92,021,800	110,796,735	20 10
1911	26,810	17,409,635	94,171,600	111,581,235	19 90
1912	28,110	18,621,000	97,326,300	115,947,300	20 40
1913	28,297	19,977,190	101,155,100	121,132,290	21 40
1914	28,620	23,054,995	104,836,400	127,891,395	21 40
1915	28,858	23,096,810	107,014,000	130,110,810	23 00
1916	28,939	23,381,270	108,258,300	131,639,570	23 50
1917	29,127	14,660,200	116,868,400	131,597,962	23 50
1918	31,184	16,385,984	118,175,700	134,520,700	25 00
1919	31,093	17,937,691	118,722,700	136,660,700	28 30
1920	36,030	17,268,272	124,436,700	141,704,972	31 30
1921	31,681	18,637,472	127,274,600	145,912,072	29 10
1922	33,547	18,597,415	128,796,200	147,393,615	30 00
1923	33,966	18,867,800	133,393,800	152,261,600	29 90

Abatements upon taxes for the past twenty years, and amount of tax uncollected March 31, 1924:

Year	Total Tax	Total Abatements	Amount of Tax uncollected March 31, 1923
1902	1,854,557 82	30,013 44	.....
1903	1,828,456 95	41,525 33	.....
1904	1,934,772 56	50,088 47	.....
1905	2,031,457 20	48,886 73	.....
1906	2,012,805 80	61,528 79	.....
1907	2,038,170 44	63,481 85	.....
1908	2,204,263 62	53,504 40	.....
1909	2,303,311 40	41,954 80	.....
1910	2,283,435 10	38,962 37	.....
1911	2,274,086 57	32,762 63	.....
1912	2,421,544 92	77,572 52	.....
1913	2,527,962 72	61,195 94	\$332 60
1914	2,806,390 01	66,369 44	506 62
1915	3,072,471 19	69,625 56	655 60
1916	3,162,823 18	56,269 48	31,270 80
1917	3,169,920 60	94,631 36	31,011 74
1918	3,426,410 10	81,869 60	35,888 59
1919	3,929,675 07	60,749 10	37,722 16
1920	4,512,800 71	72,217 66	55,199 72
1921	4,236,628 74	66,350 12	75,522 20
1922	4,488,902 46	61,577 66	95,650 23
1923	4,552,621 84	65,524 94	628,030 26

ABATEMENT CERTIFICATES ALLOWED BY BOARD
OF ASSESSORS

Taxes, Real, Personal and Poll, 1923.....	\$66,641 35
Taxes, Real, Personal and Poll, 1922.....	11,893 03
Taxes, Real, Personal and Poll, 1921.....	3,074 26
Taxes, Real, Personal and Poll, 1920.....	4,612 68
Taxes, Real, Personal and Poll, 1919.....	994 68
Moth Assessment, 1920.....	39
Moth Assessment, 1922.....	5 93
Moth Assessment, 1923.....	52
<hr/>	
Total	\$87,222 84

BORROWING CAPACITY

The valuation of estates in this City for the years 1921, 1922 and 1923 are the same as originally made by the Board of Assessors during those years, and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. The valuations were subject to changes in each year, after such report was made, as shown by the following:

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements up to and including December 31, 1923:

Year	Total Valuation	Abatements	Net Valuation
1921	\$146,439,172 00	\$3,210,624 00	\$143,228,548 00
1922	147,714,615 00	2,147,622 00	145,566,993 00
1923	152,590,400 00	1,942,966 00	150,647,434 00
	<hr/> \$446,744,187 00	<hr/> \$7,301,212 00	<hr/> \$439,442,975 00

Showing an average valuation for the year 1921, 1922 and 1923 of \$146,480,991 66.

This sum represents the amount upon which the limit of municipal indebtedness is fixed under provision of Section 10, Chapter 44 of the General Laws:

Two and one-half per cent. (2½%) on same is \$3,662,024 79
Entire City Debt on December 31, 1923, was..... \$8,661,300 00

Of this amount the following loans are "Outside" the legal debt limit, being exempted by the following Acts of Legislature:

Cambridge Bridge Loan:

Acts of 1898, Ch. 467, Funded \$1,640,000 00
Acts of 1898, Ch. 467, Serial.. 44,000 00

Brookline Bridge Approach:

Acts of 1898, Ch. 467, Funded 25,000 00
Acts of 1898, Ch. 361, Funded

Commercial Avenue Bridge:

Acts of 1903, Ch. 372, Funded 50,000 00

Cambridge Bridge Special Loan:

Acts of 1904, Ch. 158, Funded 28,000 00

Park Loan:

Acts of 1892, Ch. 341, Funded
Acts of 1893, Ch. 377, Funded
Acts of 1894, Ch. 89, Funded
Acts of 1897, Ch. 469, Funded 1,240,000 00
Acts of 1899, Ch. 221, Funded
Acts of 1912, Ch. 578, Funded
Acts of 1912, Ch. 578, Serial.. 66,000 00

Sewer Loan:

Acts of 1899, Ch. 473, Funded
Acts of 1899, Ch. 189, Funded 399,000 00
Acts of 1903, Ch. 383, Funded 267,000 00
Acts of 1903, Ch. 383, Serial.. 206,000 00

Amounts carried forward\$3,965,000 00 \$8,661,300 00 \$3,662,024 79

Borrowing Capacity—Concluded

Amounts brought forward	\$3,965,000 00	\$8,661,300 00	\$3,662,024 79
Hospital Loan:			
Acts of 1895, Ch. 99, Funded	144,000 00		
Cambridge City Hospital Loan:			
Acts of 1911, Ch. 545, Serial..	90,000 00		
Acts of 1919, Ch. 103, Serial..	115,000 00		
Metropolitan Park Assessment:			
Acts of 1908, Ch. 367, Funded	46,000 00		
Playground Loan:			
R. L. Ch. 27, Sec. 11, Funded	95,000 00		
R. L. Ch. 27, Sec. 11, Serial..	20,600 00		
		<u>4,475,600 00</u>	
Available "Inside" Debt Limit.....		\$4,185,700 00	
The entire Sinking Fund is.....	\$3,113,010 39		
Of this amount there should be de-			
ducted on account of Exempt-			
ed Loans as follows:			
Cambridge Bridge	\$504,940 78		
Brookline Bridge	7,730 96		
Com'ercial Av. Bridge	15,462 00		
Park	693,615 29		
Improved Sewerage ...	284,893 63		
Hospital	95,965 81		
Met. Park Asses'ment	31,586 00		
Cambridge Bridge Spe.	16,705 32		
Sep. Sys. of Drainage	117,468 01		
Playgrounds	34,760 42		
C'bridge Bridge,B.E.R.	257,500 00		
Sinking Fund of Exempted Loans	\$2,060,628 22		
Leaving Sinking Fund for General Loans.....		<u>1,052,382 17</u>	
Net City Debt, December 31, 1923.....			3,133,317 83
Borrowing Capacity for City purposes for 1924.....			<u>\$528,706 96</u>

1923 VALUATION AND TAX LEVY

Personal Including Banks	Real Estate	Total Valuation
\$3,272,700 00	\$20,669,200 00	\$23,941,900 00
3,211,700 00	15,330,600 00	18,542,300 00
955,000 00	10,243,700 00	11,198,700 00
2,655,500 00	12,298,300 00	14,953,800 00
1,235,600 00	11,254,700 00	12,490,300 00
1,764,900 00	12,829,300 00	14,594,200 00
1,799,500 00	12,116,700 00	13,916,200 00
1,086,400 00	13,630,700 00	14,717,100 00
1,410,100 00	14,331,700 00	15,741,800 00
1,476,400 00	10,688,900 00	12,165,300 00
<hr/>	<hr/>	<hr/>
\$18,867,800 00	\$133,393,800 00	\$152,261,600 00

WARRANTS

City	\$3,707,291 93
County	206,180 73
State	335,040 00
Metropolitan Park	105,664 43
Metropolitan Sewer	157,828 01
Charles River on account of Bridge.....	24,920 09
Charles River Basin	17,711 21
Alewife Brook	4,131 01
Prevention of Fires	1,468 72
Gas and Smoke	695 46
Rapid Transit	504 93
Deficit in Overlay	6,671 65
<hr/>	<hr/>
Total	\$4,568,108 17
Overlay	52,445 67
<hr/>	<hr/>
Total	\$4,620,553 84
Less 33,966 Polls at \$2.00.....	67,932 00
<hr/>	<hr/>
	\$4,552,621 84

SCHEDULE B.

No. IX.

LIST OF CITY PROPERTY

AS FURNISHED BY

Executive Boards and Heads of Departments

FOR YEAR

1923—1924

LAW DEPARTMENT

1 Roll top desk and chair.....	\$25 00
Revised Laws, Public Statutes, etc.....	15 00
Two filing cabinets.....	100 00
Dillon on Municipal Corporations, and other law books.....	75 00
Typewriter	100 00
Bookcase	30 00
Desk and chair.....	40 00
	<hr/>
	\$385 00

PUBLIC PROPERTY DEPARTMENT
CITY BUILDINGS

	Feet of Land	Pur- chase of Land	Erec- tion of Build- ings	Valua- tion of Land	Valua- tion of Build- ings	Valua- tion of Furni- ture
City Hall.....	47,878	1888	1888	\$100,000	\$180,000	\$34,800
Brattle Sq. Building.....	16,153	1873	1874	35,700	60,000	2,500
Central Sq. Building.....	13,028	1872	1873	13,000	60,000	2,436
Station 3.....	4,220	1862	1870	2,500	17,800	800
Station 4.....	6,316	1872	1873	5,600	21,200	300
				<hr/>	<hr/>	<hr/>
				\$156,800	\$339,000	\$40,836

PERSONAL PROPERTY

2 Ford touring cars and equipment.....	\$400 00
--	----------

ELECTION COMMISSION

Voting booth, Cambridge and Hampshire Streets	\$300 00	
5 portable voting booths.....	1,250 00	
Voting compartments and fixtures—44 precincts	1,320 00	
4 metal filing cabinets.....	340 00	
1 metal cabinet.....	75 00	
1 safe.....	150 00	
1 Oliver typewriter No. 909771.....	25 00	
1 Remington typewriter No. RX-65691.....	40 00	
2 typewriter desks	40 00	
1 roll top desk.....	25 00	
4 wood filing cabinets.....	30 00	
1 adding machine.....	120 00	
2 time stamps.....	10 00	
	<hr/>	
		\$3,725 00

PROPERTY IN USE BY THE POLICE DEPARTMENT

Property in use by the Police Department April 1, 1924:

4	Ambulances	\$10,000 00
3	Automobiles	1,500 00
2	Auto B-guns.....	79 40
4	Bookcases	20 00
19	Blankets	38 00
1	Bertillon book.....	1 00
1	Camera and stand....	75 00
77	Chairs	308 00
9	Clocks	25 00
6	Directories	30 00
212	Diaries	212 00
4	Desk lamps.....	16 00
7	Filing cabinets.....	395 00
4	Flat desks.....	200 00
6	Finger print outfits..	12 00
195	Fire alarm keys.....	50 00
9	Fire ropes.....	27 00
1	Fan (electrical).....	20 00
2	Grappling irons.....	2 00
3	Hand hoses.....	3 00
212	Hat numbers	212 00
5	Ice water tanks.....	5 00
22	Ink stands.....	11 00
33	Lanterns	33 00
1	Lungmotor	100 00
3	Medicine cabinets.....	15 00
2	Motor cycles.....	800 00
3	Messenger bags.....	\$9 00
1	Operating table.....	4 00
1	Private 'phone system....	200 00
9	Pair handcuffs.....	36 00
1	Pair legirons.....	7 00
190	Police belts.....	570 00
193	Police badges.....	193 00
207	Police clubs.....	207 00
2	Pulmotors	200 00
197	Police keys.....	50 00
18	Roll top desks.....	361 00
1	Rug	30 00
201	Revolvers	3,900 00
193	Rules and regulations....	50 00
3	Safes	45 00
3	Steel lockers.....	50 00
3	Strait jackets	9 00
1	Set law books.....	5 00
4	First aid charts.....	20 00
4	Searchlights	50 00
23	Traffic belts.....	92 00
2	Typewriters	150 00
3	Tables	12 00
4	Wardrobes	20 00
12	Waste baskets.....	12 00
		\$20,471 40

FIRE DEPARTMENT
REAL ESTATE

Buildings	Location	Land Purchase	Erec- tion of Buildings	Land Sq. ft.	Assessed Value	
					Land	Building
Engine House No. 1	108 Mt. Auburn St. }	Owned by City	1893	10,000	\$12,500	\$24,00
Ladder House No. 1	Eliot Square					
Engine House No. 2	{ 384-391 Mass. Av. }					
Ladder House No. 3	{					
Engine House No. 3	35 Third St.....	1895	1895	10,100	6,600	20,40
Engine House No. 4	Mass. Av. and Blake St.	1896	1896	9,532	9,200	24,90
Engine House No. 5	Inman Sq.	Owned by City	1913-1914	6,000	7,000	48,00
Engine House No. 6	176 River St.....					
Engine House No. 7	350 Main St.....					
Engine House No. 8	{ Junction of Garden	Owned by City	1894-1895	9,400	8,500	15,90
Ladder House No. 4	{ & Sherman Sts.					
Chemical Engine	.....				
House No. 1.....	5 Western Av.....	1903	1904-1905	10,380	3,600	30,00
Chemical Engine	.....	Owned by City	1893	15,262	4,900	6,20
House No. 2.....	167 Lexington Av.....					
Ladder House No. 2	276 Portland St.....					
			1897	7,610	4,900	12,00
					\$60,200	\$193.40

PERSONAL PROPERTY

Estimated Value, March 31, 1924

Apparatus	\$193,358 00	
Bedding, etc.....	7,000 00	
Hardware and tools.....	1,000 00	
Harnesses	100 00	
Miscellaneous	1,000 00	
Hose	16,000 00	
		\$218,458 00

FIRE ALARM AND POLICE TELEGRAPH

ELECTRICAL DEPARTMENT, WIRE ACCOUNT, EQUIPMENT

Fire alarm apparatus and machinery.....	\$20,000 00	
Fire alarm and police telegraph circuits.....	30,000 00	
150 fire alarm boxes.....	13,050 00	
Police signal apparatus and machinery.....	4,000 00	
102 police boxes.....	11,600 00	
Police signal reserve apparatus.....	100 00	
Testing instruments.....	150 00	
Tools	150 00	
Stock on hand.....	100 00	
Automobile truck.....	400 00	
Ford runabout.....	150 00	
Touring car.....	650 00	
Office furniture.....	350 00	
Total		\$80,700 00

HEALTH DEPARTMENT REAL ESTATE

799 Concord Avenue—Tuberculosis Hospital

Value of buildings	\$92,600 00	
Value of land	9,800 00	
		\$102,400 00
Linen and bedding	\$2,500 00	
Instruments and nursing utensils.....	150 00	
Dishes and kitchen utensils	300 00	
General furnishing	4,000 00	
		6,950 00
		\$109,350 00

PERSONAL PROPERTY

In office:

7 desks, 6 desk chairs, desk table	\$250 00	
Card cabinet and letter files	650 00	
Dictionary and 3 atlases	25 00	
Typewriting machine and desk.....	75 00	
Stationery and sundries	250 00	
Medical books	100 00	
Duplicator and supplies	20 00	
Disinfecting apparatus and supplies	25 00	
		\$1,395 00

In laboratory:

Microscope	\$75 00	
Incubator and thermo-regulator	35 00	
Sterilizing oven	2 25	
Test tubes	5 00	
Diphtheria, sputum, and typhoid outfits.....	175 00	
Laboratory supplies	100 00	
Cards, card cabinet, stamps and stamp rack	50 00	
		442 25

At stable and garage:

Ambulance	\$500 00	
Ambulance blankets	25 00	
Automobile	200 00	
		725 00

\$111,912 25

INSPECTION OF MILK AND VINEGAR

In laboratory:

Electric centrifuge	\$250 00	
Intermission refractometer	100 00	
Zeiss refractometer	75 00	
Drying oven	6 00	
Water bath	5 00	
Polariscope	20 00	
Analytical balance and weights.....	45 00	
Platinum dishes (7)	300 00	
Chemicals and glassware	20 00	
Office furniture (desk and chairs)	10 00	
Discarded apparatus	5 00	
High speed centrifuge (1)	25 00	
Autoclave and furnishings	100 00	
Milk collecting outfit	15 00	
Apparatus for plating bacteria.....	8 00	
Petri dishes	5 00	
1 automobile	300 00	

1,289 00

CAMBRIDGE CEMETERY

61 acres of land	\$66,900 00	
Chapel	7,500 00	
New office building	12,500 00	
1 house	3,500 00	
1 stable and shed	1,000 00	
Steel storage shed	600 00	
Personal property	5,000 00	
		<hr/>
		\$97,000 00

MUNICIPAL HOSPITAL

Land—Cambridge St., Line St. and Camelia Ave.	\$81,200 00	
Old buildings	25,000 00	
New buildings	300,000 00	
Instruments and apparatus.....	15,000 00	
Furnishings and equipment.....	30,000 00	
		<hr/>
Total		\$451,200 00

SEALER OF WEIGHTS AND MEASURES DEPARTMENT

INVENTORY OF PROPERTY

Standards furnished by the Commonwealth

- 1 Balance—5 grains to 100 lbs.
- 1 Set (5) Avoirdupois Weights, 50-lb., 25-lb., 10-lb., 5-lb.
- 1 Set (11) Avoirdupois Weights, 4 lb. to 1-16 oz.
- 1 Kilogramme in case.
- 1 Steel Meter in case.
- 1 Brass Yard Measure.
- 1 Set (5) Iron Dry Measures, 1-2 bush. to 1 quart.
- 1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.

OFFICE FURNITURE

1 Roll Top Desk	1 Sink
1 Black Walnut Desk	5 Mats
5 Chairs	1 Set Revised Laws
1 Table	1 Set Card Records—Oak Case
1 Clothes Press	1 Set Card Index—Oak Case
1 Scale Cabinet	1 Hectograph
1 Wooden Cabinet	1 Letter Press
2 Benches	1 Blotter Bath

Sealer of Weights and Measures—Concluded

MISCELLANEOUS

Miscellaneous books	\$200 00
1 Express Wagon	100 00
1 Pung	23 00
2 Harnesses	70 00
3 Plush Robes	24 00
1 Stable Blanket	2 00
1 Rain Blanket	2 00
1 Woolen Blanket	8 00
1 Halter	75
1 Hitch Weight	50
1 Balance Scale	88 69
1 Platform Scale, 1-2 to 2,500 lbs.....	75 00
1 Folding Platform Scale, 1-4 lb. to 600 lbs.....	30 00
1 Balance, 1-10 milligramme to 500 grammes.....	35 00
1 Balance, 1-50 grain to 1-2 lb.....	15 00
1 Sealer's Balance, 1 grain to 100 lbs.....	150 00
2 Leather Tool Bags.....	9 50
1 Sealer's Balance, 1 grain to 8 lbs.....	50 00
2 Sealer's Trip Scales (not used).....	5 00
1 Spring Scale, 1 lb. to 125 lbs.....	1 00
2 Sets (19) Avoirdupois Weights, 4 lb. to 1-8 oz.....	10 00
1 Set (9) Troy Weights, 1 kilo to 1 gramme.....	5 00
5 Boxes Miscellaneous Weights (not standardized).....	10 00
1 Set (9) Troy Weights, 16 oz. to 1-8 oz.....	3 00
1 Set (3) Iron Weights, 25 lb., 10 lb., 5 lb.....	5 00
40 50 lb. Weights	100 00
3 Glass Graduates	1 00
1 Arch	2 00
2 Ford Automobiles	1,093 79
4 Sets Apothecary Weights.....	26 00
1 Set (21) Grain Weights, 1000 gr. to 1-1000 gr.....	13 50
1 Set (21) Metric Weights, 50 gram to 1-10.....	13 50
1 Set (5) Copper Dry Measures 1-2 bushel to 1 quart.....	45 00
1 Set (3) Brass Dry Measures, 1 quart to 1-2 pint.....	5 00
2 Sets (14) Copper Liquid Measures, 1 gal. to 1 gill.....	30 00
1 Yard Measure	1 50
1 Iron Truck.....	5 00
1 5-gal. Copper Measure	15 00
1 Steel Tape	10 00
1 Pair of Inside Calipers	3 50
1 Set Brands	3 00
1 Plumbers' Furnace	5 00
Miscellaneous Tools	50 00
3 Record Books	15 00
4 Branding Irons	18 00
5 Test Measures for Gasoline.....	79 41
1 Set Test Weights, 1 oz. to 5 lbs.....	49 75

 \$2,507 39

CITY HOME

Thirty-two acres land bought, August 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	\$12,000 00
City Home cost.....	32,970 69
Fences, furniture, etc., cost.....	3,000 00
Total	<hr/> \$47,970 69

Hospital cottage on City Home ground built in 1866, moved and rebuilt in 1901, cost.....	\$2,800 00
Two-story brick building erected 1888 cost.....	5,600 00
Alterations and additions to City Home, 1916.....	57,711 95
Land situated in Cambridge.....	14 242-1000 acres
Land situated in Somerville	4 454-1000 “
Lands (salable) on plan of April 10, 1884:	
30 lots of 5,000 ft. (in Somerville).....	3 443-1000 “
Total acres of land.....	<hr/> 22 139-1000 acres

About seven acres of City Home land lying south of Broadway in West Somerville have been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but at the present time are assessed for about ten cents.

The valuation of the City Home real estate by the Assessors is:

Land in Cambridge	\$52,200 00
Buildings in Cambridge	43,300 00
Land in Somerville.....	39,700 00
Buildings in Somerville	3,200 00
Total	<hr/> \$138,400 00

INVENTORY OF PERSONAL PROPERTY AT CITY HOME

Bookkeeping account books, stationery, etc.....	\$150 00
Drugs, medicines and hospital supplies.....	50 00
Dry goods, clothing, bedding, furniture, carpets, etc.....	4,000 00
Groceries and provisions.....	300 00
	<hr/> \$4,500 00
Farm and Stable:	
1 horse, 8 fowls, 300 hotbed sashes, 50 straw mats, 150 shutters, wagon, pung, 4 harnesses, farming implements, fertilizer, etc.	1,000 00
	<hr/> \$5,500 00

**INVENTORY OF PERSONAL PROPERTY AT OVERSEERS' OFFICE,
CENTRAL SQUARE BUILDING, APRIL 1, 1924**

Office furniture, filing cases, bookcases, typewriters, books, stationery, etc.	\$1,000 00
City Physicians' office—Instruments, microscope, operating table, furniture, medicine, etc.....	350 00
Total	<u>\$1,350 00</u>

**ENGINEERING DEPARTMENT
PERSONAL PROPERTY**

8 Books at \$3.00 each.....	\$24 00
46 Vols. Engineering Papers at \$2.50 each.....	115 00
4 Logarithm books at \$1.00 each.....	4 00
1 Pantagraph	10 00
2 Planimeters at \$20.00 each.....	40 00
2 Numbering machines at \$5.00 each.....	10 00
1 Typewriter	50 00
Drawing instruments, pens, compasses, etc.....	25 00
Drawing materials and paper.....	25 00
Wye level	50 00
Locke level	5 00
Dunpy level	40 00
2 Transits at \$100.00 each.....	200 00
Level, line and sounding rods.....	45 00
4 Tapes	10 00
Testing pans, moulds, etc.....	10 00
2 Cement testing machines.....	25 00
Electric motor	8 00
Furniture in office.....	200 00
Photograph outfit	100 00
Rain gauges, Standard and Self-Recording.....	75 00
Plans (estimated value) 13,839 at \$10.00 each.....	138,390 00
487 Survey, line and level books (estimated value).....	9,740 00
66 House books (estimated value).....	660 00
Post drill	10 00
Emery wheel	10 00
Total	<u>\$149,881 00</u>

**SEWER DEPARTMENT
REAL ESTATE**

Location	Buildings	Erected	Purchased	Feet of Land	Assessors' Valua- tion of Land	Assessors' Valua- tion of Buildings
Pilgrim Street.....	Stable	1887 1881				
Pilgrim Street.....	Sheds	1884 1892				
Pilgrim Street.....	House	1890	1868	23,707	\$12,800	\$4,300
				Total.....	\$17,100	

SEWER DEPARTMENT

PERSONAL PROPERTY—1924

2 Catch basin cleaning carts (iron)	\$50 00
1 Express wagon	10 00
1 Hoisting engine	125 00
2 Gasoline engines	125 00
1 Gasoline tamping machine	15 00
2 Ejectors	50 00
1 Ford Roadster, 1920 Model T	50 00
1 1-Ton trailer	10 00
1 Studebaker Touring Car, Model 1921	400 00
1 Federal truck, 3½ tons, 1917 Model	1,000 00
1 Northway truck, 2 tons, 1920 Model	500 00
1 Ford truck 1 ton, 1922 Model	60 00
1 Ford truck, ½ ton, Model 1923	150 00
1 Autocar truck, ¾ tons, 1923 Model	5,000 00
2 Pile driver hammers	40 00
4 Hand pumps and hose	70 00
1 Centrifugal pump	25 00
1 Street roller (horse)	20 00
1 Sewer cleaning machine (Healey).....	100 00
3 Tool houses	50 00
4 Dozen white lanterns	35 00
1 Dozen red lanterns	8 00
Tools and implements, shovels, picks, etc.	300 00
400 Feet flushing hose	200 00
Stock on hand, brick, castings, lumber, pipe, cement, etc.....	200 00
2 Portable electric lanterns	15 00
1 Portalite (spot light)	25 00
1 Hauch thawing outfit	75 00
Long rubber boots (17 pairs)	25 00
Short rubber boots (8 pairs)	15 00
Metal soles and heels short rubber boots (4 pairs).....	15 00
1 Dozen oil hats	6 00
11 Oil coats	25 00
7 Oil pants	20 00
1 Four legged derrick and fittings	25 00
	<hr/>
	\$8,839 00

STREET DEPARTMENT
INVENTORY OF REAL AND PERSONAL PROPERTY
Real Estate

Location	Buildings and Land	Erec- tion of Build- ings	Pur- chase of Land	Feet of Land	Valua- tion of Land	Valua- tion of Build- ings
Raymond St....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	\$27,300	\$27,000
	Incinerator plant.....	1912	.....	.....	.....	5,000
Hampshire St.	City Stable, sheds, sta- bles and scales, includ- ing old police station, garage	1885	.....	72,661	32,400	71,000
E.S.Norfolk St.	Yard and pound.....	.....	.....	34,650	13,900	300
Acton, Mass....	Land, gravel bank.....	.....	1896	.....	3,000	.....
Main St.....	Land and incinerator plant	1908	.....	52,000	32,700	11,200
					\$109,300	\$114,500

PERSONAL PROPERTY

124 horses	\$36,000 00
8 watering carts	2,400 00
85 single and double carts.....	8,500 00
130 sets harness	2,500 00
2 gasoline concrete mixers.....	500 00
1 steam concrete mixer.....	5,000 00
7 automobiles	2,500 00
3 five-ton trucks	6,000 00
1 three and one-half ton truck.....	5,000 00
1 Ford truck	700 00
2 ten ton Holt tractors and plows.....	15,000 00
2 Springfield motor sweepers	12,500 00
22 Shadbolt carts	7,000 00
1 Watson cart	200 00
50 feet straight edgestone.....	50 00
20,000 second hand vitrified brick.....	500 00
50,000 second hand granite blocks.....	2,500 00
Oil storage, Portland street	1,000 00
Oil storage, Raymond street	1,000 00
Stone crushing plant, Raymond street.....	500 00
Garbage storage, Tannery street.....	6,000 00
Furnace, Main street incinerator.....	7,000 00
Miscellaneous machinery	500 00
Stocks of tools, road machines, brooms, scrapers, waste bar- rels, push carts, etc.....	9,000 00
Flashing signals, signs and posts, etc.....	3,000 00
Miscellaneous wagons, plows, pungs, etc.....	2,000 00
Stocks of fodder, paints, and general supplies for shops.....	1,500 00
4 steam rollers.....	10,000 00
Total	\$148,350 00

BRIDGE DEPARTMENT
PERSONAL PROPERTY
Cambridge and Boston Bridges

Harvard Bridge	\$750 00
Prison Point Bridge	750 00
River Street Bridge	500 00
Cambridge Bridge	100 00
Total	\$2,100 00

SCHOOLHOUSES

	Feet of Land	Pur- chase of Land	Erec- tion of Build- ings	Valua- tion of Land	Valua- tion of Build- ings
Agassiz	26,034	1874-1915	1875-1915	\$11,800	\$122,100
Boardman	10,018	1866	1868	4,500	17,500
Bridge	4,646	1836	1836	1,200	.....
Ellis	25,700	1897	1898	7,600	50,000
Felton	15,090	1847	1848	7,000	14,500
Fletcher	24,364	1902	1903	8,600	94,400
Gannett	15,434	1876	1886	3,100	7,800
Gore	9,900	1871	1871	5,000	25,100
Haggerty	46,642	1880	1914	8,200	45,300
Harvard	20,494	1870	1871-1899	11,800	71,800
High and Latin.....	{ 74,366 79,579	..... 1894	1891 1897	92,500	689,200
Houghton	20,306	1904	1904-1905	7,500	124,500
Kelley	25,536	1900	1902	9,400	80,000
Lowell	12,033	1883	1883	5,500	6,500
Merrill	37,828	1864	1864	21,400	45,000
Morse	25,650	1889	1890	11,100	80,400
Parker	12,319	.....	1893	8,600	18,900
Peabody	37,296	1887	1888-1898	22,900	68,000
Putnam	14,400	1825	1889	8,700	65,900
Rindge Technical	97,128	.....	1887	48,700	78,300
Roberts	16,400	1898	1898	9,900	96,000
Russell	63,596	1895	1896	19,800	52,900
Shepard	14,755	1855	1856-1873	10,900	29,300
Sleeper	36,584	1894	1894	8,400	30,000
Tarbell	19,500	1878	1882	6,800	12,300
Taylor	25,278	1894	1895	9,300	37,500
Thorndike	41,273	1911	1912	14,400	100,000
Webster	35,508	1866	1873-1885	11,100	154,600
Wellington	27,673	1875	1884-1909	11,500	133,000
Washington Bldg. ....	.....	.....	.....	14,400	138,200
Willard	20,079	1869	1870	8,000	26,100
Wyman	14,347	1871	1871-1886	4,600	5,900
				\$434,200	\$2,521,000

SCHOOL DEPARTMENT
PERSONAL PROPERTY

Text books.....	\$66,591 11
Desk and reference books.....	1,472 80
Apparatus and machinery.....	23,982 70
Furniture and furnishings.....	106,280 90
Stock on hand in storeroom.....	5,889 54
Total	\$204,217 05

PUBLIC LIBRARY

REAL AND PERSONAL ESTATE

141,666 feet of land, as per assessors' books.....	\$85,000 00	
Library building, as per assessors' books.....	95,300 00	
		\$180,300 00
Estimated valuation of books in the library.....	\$125,000 00	
Estimated valuation of interior furnishings	8,000 00	
Estimated valuation of books in the East Cambridge Branch Library	5,500 00	
Estimated valuation of furnishings in the East Cambridge Branch Library	800 00	
Estimated valuation of books in the North Cambridge Branch Library	7,000 00	
Estimated valuation of furnishings in the North Cambridge Branch Library	1,400 00	
Estimated valuation of books in the Cambridgeport Branch Library	5,500 00	
Estimated valuation of furnishings in the Cambridgeport Branch Library	1,000 00	
Estimated valuation of books in the Cambridge Field Branch Library	3,000 00	
Estimated valuation of furnishings in the Cambridge Field Branch Library	800 00	
Estimated valuation of books in the Mount Auburn Branch Library	2,500 00	
Estimated valuation of furnishings in the Mount Auburn Branch Library	600 00	
		161,100 00
		\$341,400 00

The lot (about 590x240 feet) occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge streets. The land and buildings were presented to the City of Cambridge by Mr. Frederick H. Rindge in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the building at a cost to the city of \$20,000, and in 1902 an addition to the stack was made at an expense of about \$30,000.

The trustees of the library also hold the following funds, invested in the bonds of the City of Cambridge:

Citizens' Subscription Fund:

Liberty Bonds, 4¼ per cent.	\$5,000 00	
Sewer loan bond No. 47, due October 1, 1925, 4 per cent.	500 00	
		\$5,500 00

Cummings Fund:

Liberty Bonds at 4¼ per cent.....	2,000 00
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Fay Fund:

10 Liberty Bonds at 4¼ per cent.....	1,000 00
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William Penn Harding Fund:

Deposited in East Cambridge Savings Bank, Book No. 58916	1,000 00
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William E. Saunders Fund:

Fourth Liberty Bonds at 4¼ per cent.....	\$7,000 00	
Deposited in Cambridgeport Savings Bank.....	752 35	
		7,752 35

Amount carried forward.....	\$17,252 35
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Public Library—Concluded

Amount brought forward.....	\$17,252 35
Edward H. Whorf Fund:	
3 American Tel, & Tel. Co. bonds, Nos. 9755, 56, 57, due July 1, 1929, 4 per cent.	3,000 00
Mehitable C. C. Wilson Fund:	
Deposited in the Harvard Trust Savings Bank.....	751 15
James A. Woolson Fund:	..
Fourth Liberty Bonds at 4¼ per cent.	5,000 00
Abigail W. Howe Fund:	
Three \$1,000 Liberty Bonds, 4¼ per cent.....	3,000 00
Maria Murdock Fund:	
Two \$1,000 Second Liberty Bonds at 4¼ per cent.....	2,000 00
Total	<hr/> \$31,003 50

PARK DEPARTMENT

LAND

Commons and Squares:

	Square feet	Valuation
Garden Street, Massachusetts Avenue and Waterhouse Street	370,784	\$370,000 00
Massachusetts Avenue and Peabody Street....	23,073	46,000 00
Massachusetts Avenue, Cambridge Street and Kirkland Street	33,357	66,000 00
Massachusetts Avenue and Holmes Place	20,956	41,900 00
Massachusetts Avenue and Waterhouse Street	13,180	19,800 00
Broadway Common	107,181	55,000 00
Fort Washington	42,123	21,100 00
Dana Square	33,531	18,000 00
Hastings Square	30,000	15,000 00
Winthrop Square	11,565	28,900 00
Arsenal Square	3,189	3,200 00
Pleasant Street and River Street	1,569	900 00
Pleasant Street and Western Avenue.....	1,272	1,000 00
Massachusetts Avenue and Arrow Street.....	872	2,200 00
Longfellow Park	93,618	35,300 00
Washington Elm	886	960 00
		<hr/>
		\$725,260 00

PLAYGROUNDS AND EQUIPMENT

LAND

	Square feet	Valuation
Cambridge Field and Shelter	528,154	\$263,600 00
Rindge Field and Shelter	501,729	107,400 00
East Cambridge Embankment	349,828	437,000 00
Russell Field	882,410	44,200 00
Houghton School	11,804	4,800 00
Peabody School	9,664	6,400 00
Morse School	13,561	4,400 00
Wellington School	8,144	3,400 00
Fletcher School	10,187	4,100 00
Thorndike Field schoolyard and playground.....	136,821	46,900 00
Mill Pond	172,813	43,200 00
Ward Ten playground	95,657	29,600 00
Ward Eight playground	20,820	4,600 00
		<hr/>
Total		\$999,600 00
Buildings		209,300 00
Equipment		58,553 36
		<hr/>
Total		\$1,267,453 36

CITY AUDITOR

CITY PROPERTY

MISCELLANEOUS REAL ESTATE

	Square feet	Valuation
Lot on northwest corner, Main and First Streets	13,690	\$24,600 00
Lot on Clifton Street	6,000	800 00
Lot on Reed Street	1,500	200 00
Lot on Portland Street.....	18,011	11,400 00
Lot on Harvard Street (near Prospect Street)....	10,050	7,000 00
Lot on New Street (Old Hospital site).....	30,940	2,300 00
Lot on Reservoir Street (Old Hospital site).....	16,624	7,000 00
Lot on Holworthy Street	10,000	2,500 00
		<hr/>
		\$55,800 00

SCHEDULE B.

No. X.

EXEMPTED PROPERTY

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, including property owned by the County of Middlesex, not including that owned by the City of Cambridge, as shown on the Assessors' Books, March 31, 1924.

**RETURN OF EXEMPTED PROPERTY FROM TAXATION IN THE
CITY OF CAMBRIDGE**

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Apostolic Pentecostal Church of New England.....	Church	\$1,700 00	
Avon Home			\$627 48
Baptist Home	House and Stable	21,000 00	2,050 00
Bishop Leverett J. Wellington Bears, Hector McDonald, George McDougall and William C. Abbott, Trustees of the Church of Scotland, unattached, and George A. Richards for tax	Church	9,900 00	
Boston Missionary and Church Extension Society of the Methodist Episcopal Church	Church and Store	34,900 00	
Broadway Baptist Church.....	Church	23,000 00	
St. Bartholomew's Chapel in Cambridge	Church	17,900 00	
Browne & Nichols School, Inc., The	Buildings	123,600 00	17,373 87
Buckingham School, The.....	Buildings	124,900 00	5,018 80
Cambridge Association of Notre Dame	Building	3,700 00	
Cambridge Home for Aged People	Building	135,300 00	20,294 07
Cambridge Hospital	Hospital and Nurses' Home	438,100 00	14,042 55
Cambridge Neighborhood House, Inc.	Playground and House	10,100 00	4,025 04
Cambridge School for Girls, Inc.	Buildings	58,200 00	3,150 38
Cambridge Social Union.....	Buildings	29,500 00	1,186 00
Cambridge Visiting Nursing Association	House	12,700 00	6,114 09
Cambridge Young Men's Christian Association	Building	235,000 00	17,952 47
Cambridge Young Women's Christian Association	Building	104,900 00	4,643 61
Christ Church, Episcopal.....	Church and House	55,000 00	
Church of the Ascension.....	Church	11,300 00	
Columbus Day Nursery of Cambridge	House	22,400 00	1,500 00
Congregation Agndath Ashkenazine of Cambridge.....	Buildings	8,300 00	1,000 00
Congregation Beth Israel of Cambridge	Synagogue	36,000 00	
Congregation and Talmud Torah Yabna	Church	32,700 00	
Co-operative Open Air School Corporation of the New Church Theological School	School Buildings	18,800 00	
			5,339 40

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Cragwell, Alfred E., John Blackman, Hubert Allyne, Trustees of the Christian Mission	Building	8,300 00	
East End Christian Union of Cambridge	Buildings	9,400 00	
East End Union Mission Church	Church	6,000 00	
Episcopal Theological School, Trustees of	Buildings	387,500 00	40,000 00
Epworth M. E. Church.....	Church	114,800 00	
First Church in Cambridge...	Church	218,000 00	
First Church of the Evangelical Association of North America	Church	14,000 00	
First Holiness Church of The Apostles Faith of Cambridge	Church and Rectory	5,900 00	
First Parish Church, Unitarian	Church	132,000 00	
First Pentecostal Church of the Nazarine of Cambridge	Building	17,100 00	
First Reformed Presbyterian Church of Cambridge.....	Church	11,500 00	
First Swedish Baptist Church of Cambridge	Church	19,300 00	
First United Presbyterian Church of Cambridge.....	Church	13,900 00	
First Universalist Society of Cambridge	Church	30,900 00	
Grace M. E. Church.....	Church	22,400 00	
Harvard Lampoon, Inc.....			6,624 00
Harvard St. M. E. Society....	Church	61,200 00	
Hebrew Literary Association of Cambridge & Somerville			1,000 00
Hellenic Orthodox Community of Cambridge.....	Church & School	28,000 00	
Holy Ghost Hospital for Incurables	Hospital Bldg.	213,400 00	17,042 71
Immanuel Baptist Church.....	Church	35,800 00	
Ince, Reginald M., Charles T. Sullivan and Joseph N. Ince. Trustees for the Brethren connected with River Road Meeting Room, Barbadoes, B. W. I., ½.....	2 Houses	5,000 00	
Kimble, James J., J. L. Leverock and S. W. Lambert, Trustees of Heard's Chapel of North Cambridge of the African Methodist Episcopal Church in the United States of America.....	Church	11,000 00	
Lamson Home, The.....	1 House	7,000 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Leavitt, Blanche C., sidewalk assessment (Hebrew Literary Association of Cambridge and Somerville, equity)	Building	17,600 00	
Longfellow Memorial Association			597 99
Massachusetts Association for Promoting the Interests of the Adult Blind, Trustee	Building	29,900 00	1,500 00
Massachusetts Avenue Baptist Church, Inc.	Church	27,200 00	
Massachusetts Baptist Missionary Society	Church	19,300 00	
Massachusetts, Commonwealth of	Buildings	8,064,000 00	
Massachusetts, Commonwealth of, Metropolitan Park	Bathhouse (Owned by City of Camb.)	200,800 00	
Massachusetts, Commonwealth of, and City of Cambridge, for tax.....	Lot	10,700 00	
Massachusetts, Commonwealth of, and City of Cambridge, for tax, and Mary M. Maguire for tax..	Meadow	23,000 00	
Massachusetts Institute of Technology	Buildings	6,495,800 00	3,770,000 00
Middlesex Charitable Infirmaties, Inc.	House	3,800 00	
Middlesex College of Medicine and Surgery	Buildings	1,403,800 00	
Miller Robert A., William H. Boone, Thomas J. Williams, Edgar F. M. Whilloughby, Richard Cox, Rufus Marshall, George F. Johnson, Trustees of St. Paul African Methodist Episcopal Church	Church	31,200 00	
Mount Auburn Cemetery Corporation	Part of Cemetery	50,700 00	28,134 04
North Avenue Baptist Church	Church	80,700 00	
North Avenue Orthodox Congregational Society	Church and lot	61,000 00	
Old Cambridge Baptist Society	Church	219,000 00	
Pilgrim Congregational Church	Church	39,300 00	
President and Fellows of Harvard College	Buildings	12,879,900 00	1,844,086 11
Prospect Congregational Church	Church	27,700 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Prospect Union			601 29
Radcliffe College	Buildings	1,049,900 00	2,635,399 21
Right Reverend Stephen Uhro, Russian Greek Orthodox Bishop of Pittsburg Diocese and his successors in trust	Church	4,000 00	
Roman Catholic Archbishop of Boston	Buildings	167,600 00	
Roman Catholic Archbishop of Boston	Buildings	185,200 00	
Roman Catholic Archbishop of Boston	Buildings	113,800 00	
Roman Catholic Archbishop of Boston	Buildings	56,500 00	
Roman Catholic Archbishop of Boston	Buildings	215,500 00	
Roman Catholic Archbishop of Boston	Church	44,100 00	
Roman Catholic Archbishop of Boston	Church	17,800 00	
Roman Catholic Archbishop of Boston	Church	20,400 00	
Roman Catholic Archbishop of Boston	Buildings	142,800 00	1,500 00
Roman Catholic Archbishop of Boston	Buildings	49,800 00	
Roman Catholic Archbishop of Boston	Buildings	42,700 00	
Rush African M. E. Zion Church	Church	6,300 00	
Sacred Heart School Association of Cambridge	Church and School	122,300 00	4,170 00
St. James Parish	Lot	9,700 00	
St. Mary's Parochial School..	Buildings	356,700 00	2,000 00
St. Paul's Roman Catholic Church	Church	64,000 00	
St. Paul's Roman Catholic School Association	Buildings	286,300 00	4,500 00
St. Peter's Parish Hall Corporation	Convent	18,400 00	2,000 00
St. Philip's Episcopal Church	Church	8,600 00	
Salvation Army of Mass.....	Building	14,100 00	400 00
Stratton, Charles F., Warren H. Dunning, and Edwin L. Chapin, Trustees of Riverside Alliance	Building	9,100 00	
Swedish Evangelical Mission Church of Cambridge.....	1 House	9,300 00	
Swedish Evangelical Lutheran Augustana Church.....	Church	18,900 00	
The Corporation of the New Church Theological School	Building	149,100 00	
The First Baptist Church of Cambridge	Church	123,500 00	

Exempted Property—Continued

Name of Corporation	Description of Property	Valuation	
		Real Estate	Personal
Third Congregational Society in Cambridge	Church	51,000 00	
Third Universalist Society.....	Church	78,000 00	
Trustees of Andover Theological Seminary	Building	381,700 00	
Trustees of Donations to the Protestant Episcopal Church in Diocese of Mass.	Church	22,800 00	
Trustees of Donations of the Protestant Episcopal Church	Church and Chapel	96,800 00	
Trustees of Donations to the Protestant Episcopal Church Trustees	Lot	3,400 00	
United States of America and City of Cambridge for tax	Building	252,400 00	
Western Avenue Baptist Tabernacle Church	Building	3,500 00	
Wheelwright, John T. and Roger L. Scaife and Arthur H. Weed, Trustees.....	Building	13,800 00	

RECAPITULATION

	Real Estate	Personal
Literary	\$15,872,800 00	\$4,580,466 09
Scientific	6,587,200 00	3,787,000 00
Charitable	904,200 00	62,079 84
Benevolent	352,600 00	29,311 46
Religious	3,357,600 00	2,500 00
Cemetery	50,700 00	28,134 04
Commonwealth of Massachusetts.....	8,298,500 00	
County of Middlesex.....	1,403,800 00	
United States of America.....	252,400 00	
Total	\$37,079,800 00	\$8,489,491 43
Real Estate.....	\$37,079,800 00	
Personal		8,489,491 43
City of Cambridge.....		\$45,569,291 43
		8,480,100 00

SCHOOL COMMITTEE

FROM JANUARY 1, 1924, to JANUARY 1, 1925

Hon. EDWARD W. QUINN.....*Chairman*

Mr. JAMES S. CASSEDY.....*Vice-Chairman*

Mrs. JESSIE W. BROOKS, 10 Linnæan Street

Mr. JAMES S. CASSEDY, 336 Harvard Street

Mr. CHARLES F. HURLEY, 5 Chauncy Terrace

Mr. CHARLES F. J. McCUE, 10 Prentiss Street

Mr. FRANCIS J. ROCHE, 293 Broadway

Mrs. FLORENCE LEE WHITMAN, 23 Everett Street

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JANUARY 1, 1924

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Secretary of School Committee

HELEN R. BROSNAHAN.....4 Wilson Avenue

OFFICES AT CITY HALL

Offices open from 8 o'clock A. M. to 4 o'clock P. M. every day excepting Saturday. Saturday from 8 o'clock A. M. to 12 o'clock M.

SCHOOL CALENDAR

1923-1924

The first term—From September 12 to December 21.

The second term—From January 2 to February 21.

The third term—From March 3 to April 25.

The fourth term—From May 5 to June 27.

1924-1925

The first term—From September 10 to December 23.

SCHOOL HOLIDAYS

Columbus Day; Thanksgiving Day, the day preceding and the day following; Washington's Birthday; Good Friday; Patriots' Day; Memorial Day; and the Seventeenth of June. If one of these holidays falls on Thursday or Sunday, the schools are closed on the day following.

EVENING SCHOOLS

There are two terms of the evening schools. The first term begins on the second Monday of October and closes one week previous to the closing of the day schools for the Christmas holidays. The second term begins on the first Monday of January, except when the day falls on New Year's Day, in which case it begins on the Monday following New Year's Day, and continues for at least twenty-five evenings. Vacations and holidays are the same as in the day schools.

In Memoriam

FRANCES E. PENDEXTER

Appointed to the Putnam School March 1860
Transferred to the Eastern School in 1862
Transferred to the Putnam School in 1869
Transferred to the Gore School in 1872
Appointed Principal of the Gore School in 1878
Pensioned in 1909
Died July 28, 1923

SUSAN I. DOE

Appointed to the Webster School March 1886
Resigned in 1910
Pensioned in 1916
Died November 21, 1923

ANNA E. CALLAHAN

Appointed to the Gore School September 1883
Transferred to the Lassell School in 1896
Transferred to the Taylor School in 1897
Transferred to the Otis School in 1902
Transferred to the Gore School in 1909
Died February, 1924

REPORT OF THE SUPERINTENDENT

I submit herewith my twelfth annual report, which is the fifty-sixth in the series of annual reports by the Superintendent, and the eighty-fourth of the printed reports of the School Committee of Cambridge.

EDUCATIONAL PROGRESS

Lip Reading

With the introduction of classes in lip reading for the hard of hearing in the Cambridge schools, another important step has been taken in providing for pupils who have a special need. Everywhere increasing interest and concern are being felt for the partially deaf child, who, with a hearing defect comparable to the vision defect of a child carefully fitted with glasses, has, until very recently, been entirely overlooked. Now, progressive school systems are providing for a group, which comprises, in Massachusetts, one and one-half per cent of the school population.

The partially deaf or hard-of-hearing child is not to be confused with the totally deaf child, who, born deaf or becoming so early in life, has to be taught speech and lives without consciousness of sound. There are excellent schools for the deaf, but the hard-of-hearing child does not belong there. His place is in the regular classroom. After he has received all possible medical aid he must be helped to make his handicap as little inconvenient as possible. Conversation, the understanding of which is necessary for social happiness and for success in school and occupational life, is his chief difficulty. Ability to read the lips, to make his eyes help his ears, will give him the assistance he needs.

Lip reading tends to increase the power of concentration and to arouse interest in the very things which seemed most trying. Deafness, unfortunately, has a tendency to increase. Lip reading ability grows with practice. The study of lip reading, then, should begin as soon as partial deafness is detected. Every hard-of-hearing child should know the best possible equipment for living as he must live.

Classes in lip reading are now being held twice a week in the High School, the Putnam, the Webster, and the Wellington schools; once a week in the Peabody, the Roberts, the Lowell, and the Russell schools; and twice a week in the Evening High School. There are at present fifty-six pupils in the day classes and seventeen adults in the evening class. A few children go from their own schools for the lip reading periods to the buildings where the classes are being held. They are not, however, the total number of hard-of-hearing children to be found in these other buildings. There is in these other schools, and in the ones not represented at all, need for the establishment of additional classes.

In each school visited the lip reading teacher divides the children into groups according to age and spends from half an hour to an hour with each group. These groups are kept small, never numbering more than six or eight, often containing only two or three, while in some cases individual work is given. Frequent short periods of lip reading practice are of greater value than less frequent long periods, so the teacher gives two periods a week to each group. This, of course, limits the number of schools one teacher can visit.

The children for our classes this year were chosen, for the most part, even before the ear tests were given, because of their known disability in hearing; others were added as a result of the ear test findings, and one child, rated as normal in hearing last fall, is now included because of partial deafness which has resulted from an illness of this winter. More and more effort will be made to examine persistent cases of inattention and slowness for possible unrecognized hearing defects.

Striking results do not always appear before the end of one year's work, but in all the classes the interest has been keen and progress very satisfactory. In one instance it has been reported that a boy's attitude toward his work has become one of alert interest rather than of indifference. One girl has been able, during a temporary period of almost total deafness, to follow the talk of her home people with considerable success. Another, whose on-coming deafness cannot be averted, is progressing so well that when her hearing will be gone, she will, in all probability, be able to keep up in the work of regular classes.

Many report a greater ease in understanding what is said in the classroom.

The evening class, recruited by hardly more than word of mouth announcements, has been most successful. Everyone has enjoyed it and the members who have studied lip reading before declare that they have made much progress as the pupils new to this work have certainly done. With due notice given it is safe to say that a class twice the size of the present one could be secured next year. In that event, there should be a group for advanced pupils and one for beginners.

Physical Education

By a vote of the School Committee this department was re-organized and Mr. Joseph J. Smith was appointed Director of Physical Education and Athletic Activities.

This re-organization involved chiefly:

(a) A revision of rules and regulations governing High School athletics and gymnastics.

(b) A division of the primary and grammar schools into four districts, and the appointment of specially trained teachers for each district.

(c) The establishment of posture and corrective gymnastic clinics at the Municipal Hospital, and the appointment of a teacher especially trained in this work, to examine and classify the physical defects noted, for the corrective gymnastic classes, held afternoons at the Municipal Hospital.

There has been a general broadening of vision of the purpose and aims of Physical Education among the masters, principals, and teachers of all our schools, and they have been eager to give the children the fullest possible benefit of the physical education activities.

The teachers have seen the value of pupil leadership enhanced by squad organization and have been zealous in their efforts to strengthen this type of organization. This has helped in discipline and self-government throughout all the schools and has played no small part in the success of the work of the gymnastic period.

At the High and Latin, and Rindge Technical Schools, a deep interest is manifested by the students in all forms of athlet-

ics. Both schools foster athletic teams in football, cross country, hockey, swimming, indoor and outdoor track, baseball and crew. We are proud of the high standard maintained, and the excellent record of our athletic teams. Members of the faculty serve as coaches, and this method of organization is largely responsible for our clean sportsmanship and school loyalty.

Physical Education is compulsory for the freshmen and sophomore boys and girls. These classes meet for a forty-five minute period twice a week. Two credits are awarded to the girls based on attendance, conduct, effort, lectures on physiology, hygiene and first-aid, with an oral mid-year and a written examination on these subjects. We have been obliged to discontinue the work at Rindge owing to the lack of facilities to conduct the classes. The program consisted of formal gymnastics, apparatus, folk-dancing, games and athletics. Voluntary classes were held two afternoons a week for girls, and three afternoons for boys, at the Latin School gymnasium, in organized games, athletics and tournaments.

The primary and grammar schools were divided into four districts with a special gymnastic teacher in charge of each district. These teachers visited each classroom and instructed the teachers and pupils in formal gymnastics, folk-dancing, and games. The room teachers, assisted by the pupil leaders, conducted the classes daily for a twenty minute period.

The establishment of a Corrective Gymnastic Department has been proven a real value by the excellent results obtained. A teacher especially trained in the work visited all the classrooms from the fourth to the eighth grades inclusive, examined for postural and other defects, and requested them to report to the Municipal Hospital for a thorough examination by Dr. B. A. Godvin, an Orthopedic Specialist, who diagnosed and prescribed treatment. The special teacher grouped them according to physical defects and conducted Corrective Gymnastic Classes every afternoon at the Municipal Hospital. Miss Church, Head School Nurse, assisted by the school nurses, co-operated in having these children report to these classes.

The program for next year will be a progression of this year's activities. Athletics for girls, at the high and grammar

schools, will be fostered, provided the needed equipment is secured.

The progress and development of the gymnastic classes at the High and Latin School are seriously handicapped by overcrowded classes, lack of space and equipment. At Rindge Technical School not even a gymnasium, or classroom, is available to conduct the work. The closing of Irving Street will aid greatly in solving the problem at Rindge.

The field back of Felton Hall will serve as a place for an outdoor gymnasium for Latin School, as soon as it is graded, resurfaced, trees removed and equipment installed for organized games and athletics. The Latin School gymnasium requires a change in lighting and heating, and the replacing of chairs with bleachers. The locker rooms are unhygienic for classroom purposes and should be renovated for dressing room use only.

The work in the primary and grammar schools is retarded because few of the buildings are constructed to permit the best type of work. There is an urgent need of recreation halls, and properly surfaced school yards. Much material is needed to develop recreational activities for the boys and girls. All new and remodeled buildings should have halls equipped for gymnastic and athletic purposes. A room should be equipped for corrective gymnastics in each district to solve the problem of transportation of the children for this work. Greater opportunity should be given for the development of outdoor activities in view of the lack of equipment and gymnasiums.

Benefactions

Through the influence of the Welfare Committee of the Cambridge Lodge of Elks, a permanent fund has been established to be used for the needs of deserving Cambridge children. It is provided that this fund shall never be less than \$500 and that no distinction in race, color, or creed be considered in the distribution of the same. Excellent and lasting results have already been noted.

The Cambridge Rotary Club has established a fund to be used in aiding young men in school or college, or men in the industries, to continue educational activities which would otherwise be necessarily denied or delayed.

The establishment of these funds by the Elks and by the Rotarians for the advancement of Cambridge pupils, marks a new departure in public benefactions and merits highest commendation. It should be a source of inspiration to other organizations.

Kindergartens

The problems of primary importance in the kindergarten are the same as in all education, namely, what we shall teach, and how we shall teach it.

The meetings this year were given over to a consideration of these two questions, with the chief emphasis placed on the latter, the subject matter being based on the Blow Program for the Kindergarten. This program is progressive and being largely suggestive readily lends itself to additions and variations to meet the present day needs of all classes of children.

To the second problem, how we shall teach, much thought and study was given, and the resulting improvement in method has been marked. A greater freedom for the child, and a greater initiative and more direct activity on his part have been secured, all of which necessitates more of that indirect activity on the part of the teacher which is so essential to the best teaching. The teacher stimulates more and more response in the children, and uses the most pertinent of such responses as the point of departure for an exercise leading to her selected educational value.

In the free play, a wider use of toys, especially of dolls, has been encouraged with larger dolls and larger doll furniture. These are more suitable for the child's play and by having them always accessible, a more natural and intelligent reaction has been brought about.

Miss Margaret Seaver, of Miss Woodward's School, gave the kindergartners a course of twelve lessons in Eurythmics. Miss Seaver spent last summer in Wales at the London School of Eurythmics and is at present studying with Miss Mallore, a graduate of the Dalcroze School in Geneva, Switzerland. One result of these lessons has been the substitution of rhythmic exercises in place of the more formal gymnastics.

We are indebted to Miss Julia Locke Frame, a former Cambridge kindergartner, who is now Supervisor of Kindergartens

under the auspices of the New York Kindergarten Association, for a very practical and inspiring talk on and demonstration of the genetic developing method. She gave a very clear, definite illustration of this method as applied to work in sewing and explained how the same method can be used in other kindergarten activities.

Miss Flora Trites, in charge of the Elementary Department, Teachers College, Winona, Minnesota, kindly gave an afternoon for an informal discussion of Methods, new and old. From her valuable experience a clearer insight into the relative values of the "Project" and the more conservative methods was gained. She advocated a combination of the best that the two schools have to offer and encouraged the efforts made toward that end.

The following books have been studied the past year: "The Pre-School Age," Arnold Gesell, Yale; "The Nursery School," Macmillan, London; "The Conduct Curriculum," Patty S. Hill, Columbia.

Mothers' Meetings have been held regularly in the kindergartens during the year and the kindergartners have been very faithful in visiting the homes of the children. The teachers averaged one hundred and fifty calls each during the year.

The work in general this year has shown marked improvement, and the results have been encouraging. The earnest cooperation of the teachers through this difficult reconstruction period has been most gratifying and gives promise of the realization of our aims for the future of the kindergarten.

Primary Schools

Conditions in some of our primary classrooms are most discouraging; it is impossible to obtain satisfactory results while these conditions exist. The Russell School has been very much overcrowded, but that district will be well taken care of when the addition, now being built, is finished. This we look for next September. The Tarbell will be relieved by the annex to the Houghton School. Something should be done to alleviate the overcrowding at the Boardman School. One third grade was transferred to the Roberts School. This helped somewhat, but there are still four classrooms having two teachers each. There

are between sixty and seventy pupils in each of two grades. This should not be from a health standpoint if for no other reason. Four classes should be formed from these two. We have been hoping year after year for some beneficial change, but nothing adequate has been done. The teachers in these classes are doing everything possible to make the children comfortable, and at the same time trying to accomplish the work planned for the first school year.

Of the girls coming from Normal School the greater number are placed in the primary grades. According to the rules of the school board, these teachers must have at least one year's experience in teaching before they can be appointed as permanent teachers. This experience we succeed in giving them by placing them with good teachers from whom they get the best practical knowledge of the work which they intend to follow. We also send them to visit some of the teachers in Cambridge and nearby cities. Some of the most satisfactory work done in the primary grades is accomplished by these young teachers. They are ready and willing to follow any suggestion and eager to adopt any plan which may in any way lead to improvement in our school system.

The primary teachers of all grades are insisting upon large, legible writing. If children are carefully supervised when striving for the proper formation of letters and figures, they will undoubtedly form them correctly.

High and Latin School

The needs mentioned in the report of a year ago are still most pressing. The total registration at that time was 2,799. The total registration this year was 2,728 the first of March. The decrease is due to the entering class being smaller than usual. The membership of the school the first of March was 2,573, a loss of one hundred and fifty-five pupils since the twelfth of September, or five per cent.

Two hundred and eighty are taking drawing, which falls far short of representing the total of pupils who would like to take it if they could be accommodated. The work, however, cannot be extended without additional room.

The sewing classes are working under very discouraging conditions. In spite of this, three hundred and ninety chose the subject and seem to enjoy it. A constantly increasing number should and would take this profitable work if the opportunity were offered. As mentioned in the report of a year ago, there are many girls going to the school who are not able to do any large amount of academic work. They need to use their hands, and through their hands come to realize the need of the academic. It is impossible to meet the needs of such pupils by attempting to weaken other courses. Such procedure makes the changed course of little value to anybody. The school should, as far as possible, offer to these girls the kind of work they are capable of doing, and then insist upon quality in that work. As long as we insist upon a high standard in all departments, no department will have any stigma attached to it.

In physical training, it is impossible to do satisfactory work during the cold months. Working conditions are very bad. Personally, I feel that the city could hardly make a better investment than to provide adequately for the proper physical training of its youth.

If the school does not increase its numbers, certain changes can be made in the English Building giving room for the much needed development of practical arts departments. The old auditorium of the English Building is now used as a single recitation room, as only one class at a time can use the room. This means a great waste of space. The room is altogether too high and too large for one class. If a ceiling could be built over this room, similar to that on the lower floors, at least five excellent rooms could be obtained. Possibly, rooms could be arranged above as very satisfactory quarters for sewing classes. Room 95 is also much too large for effective use. I suggest that an architect be asked to make a plan for changing the third floor of the English Building so that it can be used most advantageously.

Eighty-two pupils entered college this year from the High and Latin School. Of these, eight entered by the new plan, sixty-five by the old, and nine without examinations. Of the nine, seven entered Harvard and two, Radcliffe. Seventeen girls went to the Normal Schools. The list of the choices of the ninety-nine pupils follows:

Harvard	22	Simmons	2
Radcliffe	10	Connecticut College	1
Massachusetts Institute of Tech-		Colby College	1
nology	9	Mt. Holyoke	1
Boston College	9	Smith	1
Wellesley	5	Tufts C. L. A.	1
Boston University Secretarial	5	Lowell Normal	11
Tufts Dental	4	Salem Normal	2
Boston University Business	4	Bridgewater Normal	1
Tufts Pre-Medical	3	North Adams Normal	1
Jackson	2	Bridgewater Normal	1
Emmanuel College	2	Boston Normal	1

Some people have been troubled by the school's not winning more honors in admission examinations. The pupils who would take honors enter by the New Plan or with no examinations at all. In some schools, on the other hand, all are required to take the Old Plan entrance examinations. One who really wishes unbiased information can very easily get in touch with Harvard, Technology, Radcliffe, or any college concerned and secure the facts. The tendency of the colleges is to increase the difficulty of admission—a necessary procedure as long as the applications exceed the accommodations. However, the requirements are not too difficult for the student who has ability sufficient to justify a college education, and who is willing to work. The High and Latin School has for years done excellent work in college preparation. The school is large enough to justify the formation of distinct college divisions. The college definitely prescribes the admission demands and the examinations have definitely informed us of the kind of tests the pupil must undergo. To prepare successfully for these tests the work must be made very searching and never easier because some pupils may find the accomplishment difficult. If a boy is unwilling to do the grinding work necessary for college preparation, he should take a different course. While preparing for college is not the chief function of the High and Latin School, it is a big function. The school can continue its excellent record only by keeping divisions small, teachers expert, and the work searchingly thorough.

The establishment of the position of Librarian has proved of great benefit to our high school pupils. Miss Lawson, who was transferred to this department, was an experienced teacher

of High School English and so has been well able to advise wisely those consulting her.

During the past year, still another experiment has been tried in the form of a high school annex in the Merrill Building. It is too early to pass any permanent judgment on the value of that experiment. The underlying idea has been to give certain boys more individual attention than they had been receiving. These boys had been doing very poorly in their studies, principally because of inattention coupled with lack of effort. In the annex about fifty boys have the entire attention of three masters, which makes possible a close and constant supervision. Of course, it is unfair to the teachers and boys for us to expect too much in the way of accomplishment. If the boys who have failed in a large part of their work for a half year are transferred we cannot expect them in the remaining half year to accomplish a full year's work. If they do a half year in the remaining time they will have made great progress. The small numbers make it possible to reward each boy according to his individual accomplishment. Speaking of this group calls to mind again that other group, both boys and girls, who are doing poorly primarily because the school does not have enough courses suited to their needs and capacities. Therein lies one of the great problems of secondary education today. In some way the capacity and need of the pupils should be discovered and then work arranged accordingly. This does not mean arbitrarily putting a boy into a certain line where he must permanently remain; it means giving him work which, from all obtainable data, seems wise, and then changing as later progress demands. It is most unfortunate for any pupil to feel he is a failure, to lose his self-respect. He must believe in himself; and, for this reason, he must attempt things that he probably can do. With each success will come greater confidence and greater power to win other successes. This can be done without in any way accepting careless work.

Last summer the school suffered a very great loss in the death of Miss Jennie Spring, senior dean and head of the Latin Department. Miss Spring was a remarkably successful teacher. She had a gift for instruction, a great love for young people and an intense loyalty to high ideals of scholarship and conduct. Miss Martha Smith by reaching the retiring age, closed a serv-

ice of forty-one years in the Cambridge schools. That service was marked by exceptional ability and a never flagging devotion to high ideals.

Rindge Technical School

For several years I have emphasized the fact that the school has entirely outgrown the quarters provided for it in the present buildings. The situation has become even more acute this year and a way should be found to give some measure of relief. All recommendations made for the school at the present time are subordinate to this great requirement—more room for every department.

I recommend that the rooms occupied by the woodworking department be equipped with automatic sprinklers.

Some years ago steel lockers were placed in the basement of the Washington Building for the use of the boys, who require some place in which shop coats, shop material, lunches, etc., may be kept. Three hundred lockers sufficed for the whole school at that time, two boys sharing each locker. With the present membership, at least one hundred and twenty-five new lockers are needed.

It is interesting to note that during the past year there has been considerable growth in the number of organizations to which the boys belong. The general effect of these organizations has been to create a closer bond of sympathy between the boys and to promote very largely the work of furnishing suitable outlets to talents and energies which do not find sufficient play during school hours.

Prominent among these organizations has been the student council composed of representatives from each class, from each of the athletic teams, and from other school organizations. The element of self-government thus introduced has proved to be of very great value. The boys have accomplished some remarkable work in matters of discipline, and, in fact, in all matters affecting the morale of the school.

I am pleased to report that the year has seen a very great amount of the most devoted work on the part of the teachers. The steadily growing condition of immaturity in the boys is each year making the task of teaching more and more difficult. I hope that in the near future action will be taken which will re-

lieve us of some of this difficulty. The most direct way to place instruction on a satisfactory basis, would be to extend the regular school course from four to five years, making it possible for boys of special ability to finish in four years. The additional year would give us opportunity in the shops, in the drawing room and in advanced science work, to give the kind of instruction which a school of this type ought to provide. If the length of the school course were five years, a more elementary type of work could be given in the first year which would fit the requirements of the first year boys better than anything that can be done at present. The growing number of boys who return for a post-graduate year indicates that this change would not be unwelcome to the boys and to their parents.

I recommend that a five year course be authorized.

Continuation Schools

Membership in the Continuation School is governed entirely by industrial conditions. When industrial conditions are good the numbers are large and bad industrial conditions result in smaller numbers. The schools opened for the fourth year in September, 1923, with the largest number of pupils since the first year of the schools and the numbers have remained consistently larger than in other years although there has been a decrease due to a change in industrial conditions since the first of the year.

On recommendation of the State Department of Education, the Department of Vocational Guidance was abolished, and the work is now being done by the principals and teachers.

In addition to printing and woodworking, a course in clerical practice has been conducted by the principal of the Boys' School.

Special Classes

The outstanding needs of the special classes remain unchanged. There is still a lack of proper housing facilities and much desired equipment—but in spite of this handicap, much has been accomplished.

In order to supplement work done in the schools, the special class teachers have this year made it a point to familiarize them-

selves with the home conditions of their pupils, and to visit in their classes children who have been promoted to regular grade work. The value of this "follow-up" work in the case of defective children can hardly be over-estimated. It establishes a sympathetic relation between the home and the school and it often gives the teacher an insight into the most effective methods of direction. The family history, which is so important a factor in the interpretation of such children, together with the school history, determines where the children shall be placed and the type of work they will do.

In order to enrich the curriculum and to offer to the special class teachers an opportunity for self-improvement, a course in basketry has been given by Miss Jeanette Grady of Boston with satisfaction to both teachers and children.

An innovation in the department this year is the establishment of a clinic at Harvard University under the direction of Professor Walter F. Dearborn. With the voluntary assistance of Miss Dora E. Clextan, who has been studying under Professor Dearborn, we are now able to submit the children to regular scientific testing. We feel this clinic is a progressive step and we hope for great benefit from it in the near future.

Speech Improvement

Classes for the correction of speech disorders meet in eleven central school buildings.

Exercises in proper breath control and in articulation are given to all pupils at least once a week and those needing special attention are drilled twice a week.

Ninety-eight pupils, some of whom have been sent from the primary classes, have been under instruction this year. Eleven pupils have been discharged, restored to normal speech power.

Art

This department has shown quite a marked improvement during the past year, and I am pleased to note the increased interest which has arisen from the many conferences of teachers held by the Director and his assistants.

A change was found advisable in the fall outline for Grades IV to VIII inclusive. Previously the color theory was required

in the September and October outline, and the geometric problems came in November. The fall opening of school being a period of adjustment for both teachers and pupils, the distribution of water-color material imposed an added hardship in these early days. This has been overcome by placing the geometric work (which necessitates only the use of the compass) in September and early October, and advancing the watercolor work to the latter part of October and the whole of November. A marked improvement in the color work has been achieved through this change.

As an additional element of instruction, the Teachers' Club co-operated with the art department in a lecture showing the application of the Munsell color theory to modern costumes as used by a prominent Boston business firm.

The subject of Accident Prevention was being stressed throughout the State. A program was submitted with the hope that there might be a whole-hearted response, the object being not poster making in itself, but the use of the poster as another means to stimulate the pupils' expression with regard to the important subject of Accident Prevention.

The class for talented pupils meets in the High School Art Department every Wednesday afternoon from two-thirty to four-thirty o'clock. The studio environment and the association with other equally talented pupils from the grades add to the art atmosphere and give a stimulus to these students who have found the regular school-room work of the grades too easy.

The Cambridge Museum for Children

Each year the Cambridge Museum for Children becomes more an integral, accepted part of the school system, while at the same time it reaches out in new ways into the activities and interest of the children when not in school.

As a school museum its chief work, of course, is in co-operation with the teachers of geography. In this direction the past year has seen several distinct steps forward. A committee including the Museum staff completed last spring a provisional course of study in geography for the eighth grade. This course was put into the hands of the teachers at a conference at the Museum in March. Its completion gives the grades from the

fourth through the eighth a progressive and consistent geography course which allows for considerable freedom, but avoids needless repetition of work.

Soon after the opening of school in the fall, geography conferences were held as usual, this time including one for eighth grade teachers. The speakers at each conference this year were from out of town so that opportunity was given for an interchange of ideas. The cities represented were Boston, Medford, and Newton. Each speaker brought with her, interesting samples of work done as class projects. All the visiting teachers expressed delight at the exhibits in the Museum and heartily appreciated the value of such a museum as a part of any school system. All spoke especially of the enthusiastic spirit of the Cambridge teachers from whom they got helpful suggestions.

New lecture subjects are added yearly to the list from which the teachers may choose the Museum lessons to be given their classes. Four subjects are now offered to the fourth grades, six to the fifth, two to the seventh, and one to the eighth grades. Subjects added this year are "The Lay of the Land Around Cambridge" for the fourth grade, a lesson given around the Curtis relief model of the Metropolitan District in the Agassiz Museum; "Weaving" for the fifth grade; "Russia" for grade six; and "The Boston Basin and its Problems" for the eighth grade. The last subject, like the first, is given at the Agassiz Museum around the Curtis relief model. The pupils are given maps showing Cambridge water supply, Metropolitan water supply and sewage disposal, and the parks and parkways of the district. The problems of this congested area and their solution are discussed with the Curtis model and the maps as a basis. This lesson has been given by request to delegates from several of the High School Civic classes.

Two calls have come from the High School for lantern slides, one from the Science Department for slides illustrating in a general way the development of animal life from the simplest to the most highly organized forms; the other from the Commercial Geography Department for slides on industrial subjects. Slides have been added to the Museum collection in response to these requests and lists have been furnished the High School departments which asked for them. The Museum

will increase its collection in response to further requests. In all, over two hundred and fifty slides have been purchased by the Museum in the past year.

The total number of children hearing Museum lessons this year was 8,363. Of these, 5,379 came with their teachers to the Museum. The remaining 2,984 heard illustrated talks by Miss Crawford at their schools.

The short school vacations continue to be lively weeks at the Museum. The daily average attendance in the April and February holidays this year was one hundred and thirty. Christmas vacation week attendance was light, as always, due to weather and to competing attractions. In February vacation a happy group of smaller children listened to fairy tales in the basement each day while their older brothers and sisters heard lectures or entered Museum guessing contests upstairs.

The Sunday programs are still a most popular feature, attracting children from all over Cambridge as well as from neighboring towns. The total attendance at the twelve open Sundays this year was 2,104, an average of 176 each Sunday, the average attendance at the lectures being 150. A victrola and records loaned to the Museum added much to the children's enjoyment during vacations and on open Sundays.

A small group is busily working on the Museum study collection of minerals with a view to earning specimens for home collections.

Another group is clamoring for outdoor work on insects, birds, and so on. It is planned to organize Saturday field trips to meet this demand.

Ten or more stamp collectors are organizing a club with the Museum as a meeting place so that they can use Museum catalogs and periodicals for the latest data on stamps.

Girl Scout troops as well as Boy Scouts are coming to the Museum for study, for field trips, and to take examinations to secure merit badges. This year one Boy Scout examination has been given in Bird Study, and Girl Scout examinations in Bird Study and Zoology.

The Museum has offered a prize to the Boy Scout Troop and another to the Girl Scout Troop bringing in the most egg masses of the tent caterpillar. The contest is also open to individual

boys and girls, thus giving every young citizen of Cambridge a chance to help clean up the country round about and rid it of a public nuisance.

Public lectures illustrated by motion pictures have been given under Museum auspices. Through the courtesy of Harvard University, the Museum was saved the great expense of securing a motion picture machine and operator for these lectures by being allowed the use of Pierce Hall lecture room.

Besides children and their parents, many school groups from other towns, representing public and private schools, have visited the Museum within the past year, some coming from as far as Waltham and Milton. Cambridge's private schools, too, are frequent and welcome visitors at the Museum.

Museum workers and other educators frequently drop in to see the work of this museum for children. Among others, this year's list includes Museum guests from Providence, Cleveland, and St. Louis, as well as educators from Czecho-Slovakia, Belguim, England, China, Japan and the Philippines.

A selected number of the posters done by the children in public and private schools for the competition held by the Cambridge Hospital Fair Committee were shown at the Museum for three weeks in November.

In a case in the main room at the Cambridge Public Library, the Museum is installing for two month periods a series of exhibits. Already there has been an exhibit illustrating child life in Japan, one showing some of the most beautiful things in the Museum's collections, and a collection of prints from paintings done by children in Professor Cizek's class in Vienna. As soon as possible the exhibits will go also to one or two branch libraries and, it is hoped, to some of the distant schools.

Lever Brothers Company has just installed in the Museum a most interesting exhibit which might well be called "The Geography of Cambridge Soap." The American Rubber Company had previously supplied material for lessons on "The Making of a Rubber Shoe." Exhibits illustrating the story of other Cambridge products would be a welcome addition to the Museum equipment.

The Museum equipment grows yearly through additions made by the School Department and purchases made possible by private subscriptions, and by proceeds from lectures. Besides this, new articles for exhibition come in almost daily as loans and gifts from friends of the work.

Music

The Director of Music, after much study, has deemed it wise to make certain changes to simplify the course in Music in the grades. The underlying thought has been to present the subject so as to reach the masses and so make it possible for pupils who have not other musical environment to make music a part of their lives. Under the old system students who were naturally musical, or who received home training in the subject, so easily outdistanced the others that the latter easily became discouraged and discontinued earnest effort. While the present plan does not require so much that is technical and unnecessary in the school or community field, it is working toward a far greater efficiency in the sight reading classes. The Director of Music conducted an individual examination in the eighth grades of fourteen grammar school buildings to determine the musical status of boys of the adolescent stage, as well as that of each class as a whole. Although every boy was examined, only five failed utterly to meet the requirements. Of these, three had recently come to Cambridge and had had no previous musical instruction. The examinations are to be extended downward and carried on each year to the end that each pupil shall be able to read simple music, at least.

Following the policy outlined during a conference held by the State Board of Education, work has already started in our schools to perpetuate the best of the old songs so familiar in the family life of a generation or two ago. These songs are taught by rote. The list contains many songs that are familiar to a large number of the pupils, but are practically unknown to those whose families have entered the United States within twenty years. Starting with a small number in the lower grades, it is the intention to add to the list each year as the pupil advances, so that he may have a repertoire of twenty-five or thirty songs when he finishes his grammar course.

The Boston Symphony Orchestra gave three concerts for young people during the year. This was in sympathy with the country-wide movement for the advancement of the cause of Appreciation of Music. All of the tickets assigned to Cambridge were quickly taken by grammar school pupils. A fourth concert, given by Handel and Haydn Society, was given for high school pupils only.

In the High and Latin School, all pupils who elect chorus are required to take Appreciation of Music, the two branches being coördinated. One of the features of the course this year was a talk on opera on November first by a representative of the San Carlo Opera Company. The Thursday and Friday choruses are entertained each week by one of the talented pupils, the vocal or instrumental number being preceded usually by a descriptive, or a historical talk by the Director of Music. The same plan is in force at the weekly assemblies of the Senior Class and some remarkable and hitherto hidden musical talent has been afforded opportunity for expression.

From time to time, Mr. Whoriskey has purchased orchestral instruments with money earned by the musical organizations by the presentation of operas and other forms of entertainment. He has added to these a few instruments that have been loaned to the department in order that worthy students might have an opportunity to learn to play them. Whenever instruments have been loaned to pupils the parents have agreed to defray the expense of private instruction with teachers of their own choosing.

The High and Latin School Orchestra has been available during the year and has been used at the debates, the senior drama, the evening school graduation and other activities. In the fall, a hastily gathered band was trained and led the singing at the football games. All of these organizations must be remade every year, on account of losing trained pupils by graduation. The efforts of the members deserve commendation.

There is a crying need in some of our kindergartens for new pianos, and we should have a piano for the use of the classes in harmony at the Latin School. This should be of the self-playing type so that it may also be used in the classes in Music Appreciation.

Americanization

The most comprehensive meaning of Americanization is the business of making good American citizens.

One of the first steps in the making of good American citizens is the removal of the language barrier which separates the foreign born from the American born. This done the immigrant is enabled to make himself acquainted with the life, customs, institutions and ideals of America.

Such schooling of the immigrant is a public function and should be carried on under the direction of the public educational authorities whether in Evening, Industrial or Neighborhood classes. Following this idea, the public schools of Cambridge offer education to the immigrant whenever and wherever found. During the past year, classes have been conducted in public school buildings, in factories and in neighborhood houses, in homes, in club rooms, and in hospitals.

The general work of recruiting classes was carried on by means of mass meetings, posters, foreign language fliers, English fliers, English and foreign language press, clubs (American and foreign), the clergy, personal letters, letters to parents by school children, personal solicitation, moving picture slides and notices, racial leaders, and letters to applicants for licenses to operate automobiles who had been rejected because of their inability to read English.

Splendid coöperation on every hand resulted in the organization of eighty-nine Americanization classes during the past year.

Evening Schools

The evening schools opened for the year 1923-24 on October 16, and closed on April 24. Sessions were held on Tuesday and Thursday evenings from 7.30 to 9.30 and the terms were divided as follows:

Fall term—October 16, 1923 to December 14, 1923.

Winter term—January 3, 1924 to February 21, 1924.

Spring term—March 4, 1924 to April 24, 1924.

The Evening Practical Arts School was closed during the month of January. In addition to the regular classes in this

school, a class in embroidery and lampshade-making was successfully conducted this year.

At the Evening High School, a class in lip reading was conducted. The class was well attended and much appreciated by the pupils.

After conferences held with the Commission on Apprenticeship for the Building Industry, apprenticeship classes were formed in carpentry and in bricklaying at the Rindge Evening Industrial School. These courses fill a long felt need, and I recommend the establishment of such other apprenticeship courses as there may be a demand for next year.

With the exception of the changes noted above, the organization and location of the evening schools were the same as for the preceding year.

Fresh Pond Day Camp

The Fresh Pond Day Camp opened for its seventh annual session on July 7 and continued for six weeks, closing on August 17. As in past years the work of the school was made possible by the coöperation of the School Department, the Board of Health, and the Anti-Tuberculosis Association. The headquarters were at the Haggerty School and the Fresh Pond Reservation was used as a playground and a resting place.

On account of the increased demand for admission to the school, it was necessary to limit admission to those children who were at least ten per cent under weight and to those who otherwise appeared to be in a subnormal physical condition. So as to give every child a fair chance, the school nurse made a thorough survey of the health cards and visited the parents of the children who needed medical attention.

After a conference with a representative of the State Department of Health, the Anti-Tuberculosis Society decided to enlarge the menu that had been used previously in the school. This necessitated a large increase in the expenses, which was provided for by the School Department and the Anti-Tuberculosis Society.

During the first week of the school, every child was weighed and measured by the nurses and given a physical examination by the school doctors. The parents were notified of the

defects and corrective work was begun. All posture cases were placed in charge of the Physical Director. Two special classes were formed for the observation of children having two or more defects. In these classes there were twenty boys and twenty girls. The average age was eight years. Two extra nurses were put in charge of them to determine, if possible, the cause of their poor physical condition. Home visits were made to notify the parents of the defects and to obtain their coöperation in the corrective work. These children were given special attention by teachers, nurses, doctors and physical director. Extra food and rest periods were provided for them. They were not allowed to compete in athletics or play strenuous games. It is gratifying to report that every child responded to the treatment and showed a decided gain in weight, and that the mothers followed the advice given by the nurses in their "follow-up" work.

It is interesting to note that there was only one cardiac case in the school. Undoubtedly this was due to the excellent "follow-up" work of the previous years.

Since the preservation of health is dependent on the formation of health habits, a program of hygienic activities was used.

It is needless to say that the children showed a decided improvement and were in excellent condition to start their fall work. Seventy-three children took advantage of the Schick Test given under the direction of Cambridge Board of Health. One hundred sixteen dental cases were treated at the Dental Infirmary. One nurse was stationed at the school from 9.30 to 3.30. Two nurses had charge of the dental work.

Central Day Camp

The Central Day Camp opened for its second session on July 9, and continued for a period of six weeks. Headquarters were established at the Latin School, while the Library grounds served as a playground and as a rest place. Accommodations were provided for two hundred children needing the attention and care that can be given at a camp.

In order to be eligible for membership, a child had to be from seven to ten per cent under weight, or have a physical

handicap. No one was allowed in the Camp who had a communicable disease. On the opening day, doctors (assisted by nurses) made thorough examinations. This made possible the classification into groups of those who would be benefited by a quiet day and those who should follow a more strenuous program, and the elimination either permanently or temporarily of any one who might endanger the health of others.

The aim of the summer camp was to build up those little people as nearly as possible to their normal weight and to prove to them objectively what correct foods, plenty of air, cleanliness, wholesome exercise, and relaxation can do in the building up of frail bodies. It was hoped that others might benefit indirectly by the camp habits being carried into the homes.

Weekly, each child was weighed and given a partial examination and records were kept. Medical and dental clinics were held for correction of defects.

Music, singing, marching, knitting, sewing, basketry, games, and health-talks were a few of the daily activities of the Camp. Health-habits were formed by the daily requirements of the care of the body and fair play was inculcated by directed and self-directed play.

Children between the ages of twelve and fourteen showed the greatest gain as a group. The greatest individual gain was six pounds, eight ounces. Of two hundred and forty children, two hundred made appreciable gains.

I wish to thank the members of the School Committee for their hearty coöperation during the past year, and I wish to acknowledge my sincere appreciation to the directors, principals, and teachers of the schools.

Respectfully submitted,

M. E. FITZGERALD, *Superintendent of Schools.*

July 22, 1924.

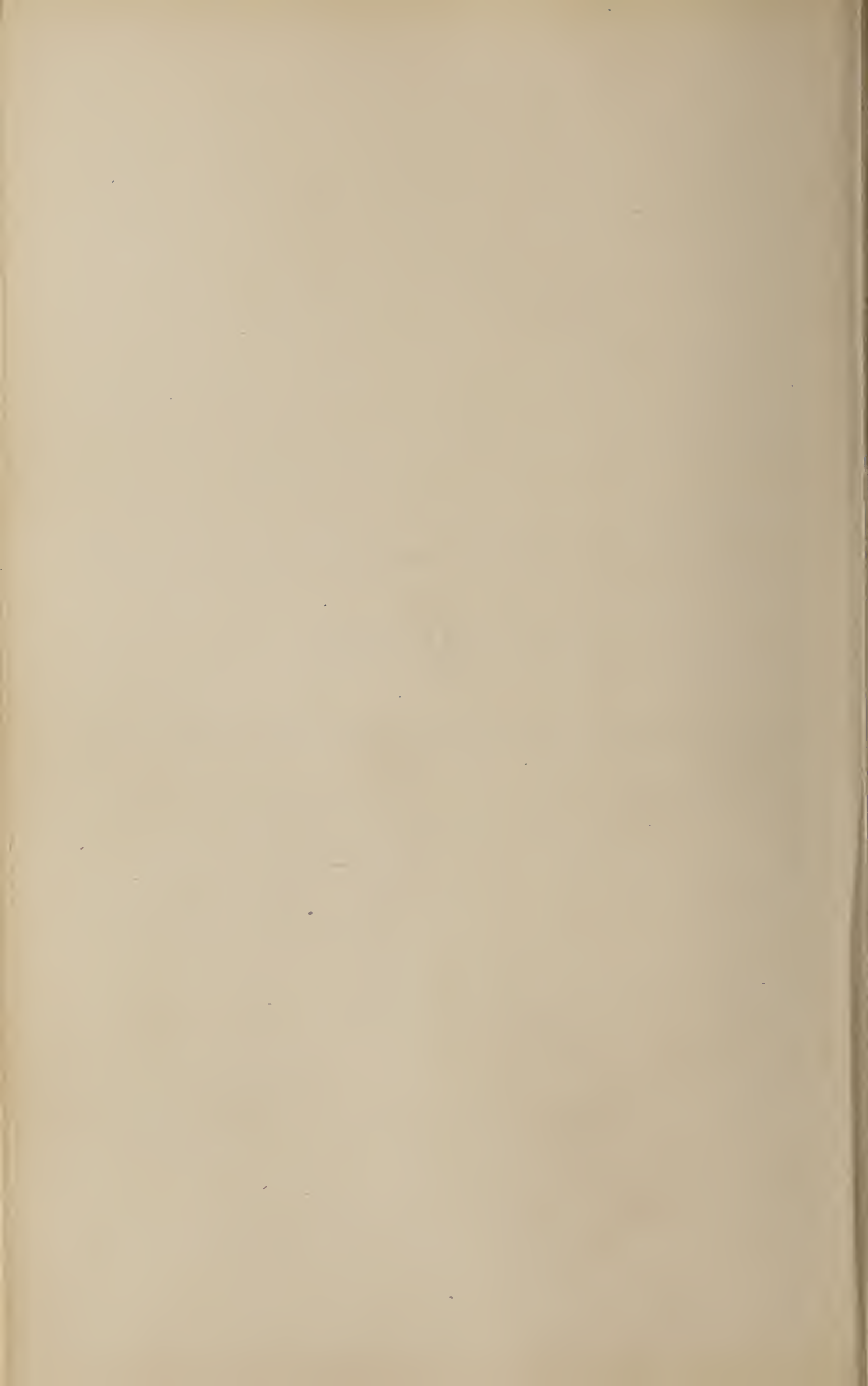
Ordered, That the report of the Superintendent be accepted and adopted as the report of the School Committee for 1923.

HELEN R. BROSNAHAN,

Secretary.

Cambridge, Massachusetts.

STATISTICS



FINANCES

For the Financial Year from April 1, 1923,
to April 1, 1924

RECEIPTS

Amount received from Tax Levy (\$8.50 per \$1,000 valuation)	\$1,210,873 03
Amount received from Tax on Intangibles, collected by State	45,983 53
Amount received from Massachusetts School Fund.....	105,340 00
Unexpended balance from 1922-1923.....	75,111 59
Revenue received.....	51,370 54
Total amount available for support of schools.....	\$1,488,678 69

EXPENDITURES

Salaries of teachers, all schools.....	\$1,119,068 63
Administrative salaries	57,059 25
General administrative expenses.....	10,853 75
Text-books and supplies.....	73,213 05
Transportation of pupils.....	956 80
Care of truants.....	235 99
Tuition to other cities.....	8,974 97
Janitor service.....	90,163 75
Janitor's supplies.....	2,675 46
Fuel and light.....	41,093 71
Repairs to buildings.....	37,974 94
Furniture and furnishings.....	1,951 63
Other school expenses.....	3,682 23
Refund on Minor's Licenses.....	42 75
Pensions	5,937 60
Total expenditures.....	\$1,453,884 51
Balance unexpended and carried forward to 1924-1925.....	\$34,794 18
Special teachers' salary appropriation to be carried forward....	21,123 45
Net unexpended balance.....	\$13,670 73

COST OF INSTRUCTION FROM APRIL 1, 1923, TO APRIL 1, 1924

Schools and Officers	Cost of Instruction	Average Number of Pupils for the Year ending in June	Cost per Pupil
High and Latin School.....	\$204,666 17	2,499	\$81 89
Rindge Technical School.....	110,460 89	829	133 24
Grammar Schools	333,132 09	6,886	48 37
Primary Schools	257,786 36	5,365	48 04
Kindergartens	50,773 28	670	75 72
Open Air Classes.....	18,011 95	126	142 63
Substitute Teachers	31,618 00	—	—
Continuation School	19,871 10	—	—
Department of Art.....	5,689 40	—	—
Department of Music.....	7,934 45	—	—
Department of Physical Education.....	8,244 60	—	—
Manual Training and Pre-Vocational Work..	20,465 59	—	—
Teachers of Sewing.....	11,448 96	—	—
Teachers of Cooking.....	2,002 00	—	—
Teacher of Stammerers.....	1,848 00	—	—
Teacher of Vision Class.....	2,464 00	—	—
Teacher of Lip Reading.....	1,148 00	—	—
Opportunity Class	204 90	—	—
Teachers at Agassiz Museum.....	4,372 00	—	—
Superintendent	7,500 00	—	—
Assistant Superintendent	4,600 00	—	—
Supervisor of Primary Schools.....	2,652 00	—	—
Supervisor of Kindergartens.....	2,652 00	—	—
Business Agent	3,250 00	—	—
Superintendent of School Buildings and Grounds	2,750 00	—	—
Clerks	8,924 33	—	—
Porter	1,456 00	—	—
Attendance Officers	13,471 92	—	—
Total	\$1,139,397 99	16,375	\$69 58

Cost of instruction in the Evening Industrial School.....	\$4,024 23
Cost of instruction in the Evening Freehand Drawing School	216 50
Cost of instruction in the Evening Elementary Schools	11,437 00
Cost of instruction in the Evening Trade School for Girls.....	2,371 16
Cost of instruction in the Evening High School.....	3,714 00

Total \$21,762 89

Cost of instruction in Vacation High School.....	\$2,994 00
Cost of instruction in Americanization	6,817 00
Cost of instruction in Vacation Open Air Camps.....	5,156 00

COST OF INSTRUCTION IN THE DAY SCHOOLS

Salaries of Teachers, Superintendents, Supervisors, Agent, Clerks, and
Truant Officers

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year ending in June	Total Cost	Cost per Pupil
1914	499	16,105	15,510	\$501,693 10	\$32 34
1915	523	16,232	15,581	545,686 00	35 02
1916	530	15,750	15,799	594,460 37	37 63
1917	519	15,659	15,202	610,050 79	40 13
1918	531	15,578	14,936	653,324 23	43 74
1919	518	15,731	14,487	722,974 99	48 31
1920	517	15,669	15,085	934,611 06	61 96
1921	538	16,536	15,385	976,154 94	63 44
1922	568	16,773	16,092	1,008,953 06	62 69
1923	561	16,818	16,375	1,139,397 99	69 58

COST OF THE DAY SCHOOLS

Cost of Instruction, of Textbooks and Supplies, of Incidental Expenses, of the Care of Truants, of the Care of Schoolhouses, and of the Transportation of Pupils, but not including Repairs.

Year	Number of Teachers in December	Number of Pupils in December	Average Number of Pupils for Year ending in June	Total Cost	Cost per Pupil
1914	499	16,105	15,510	\$607,875 97	\$39 19
1915	523	16,232	15,581	664,001 18	42 62
1916	530	15,750	15,799	725,161 39	45 90
1917	519	15,659	15,202	739,004 77	48 61
1918	531	15,578	14,936	837,308 55	56 05
1919	518	15,731	14,487	901,980 42	62 25
1920	517	15,669	15,085	1,190,899 07	78 96
1921	538	16,536	15,385	1,201,043 38	78 06
1922	568	16,773	16,092	1,233,345 66	76 64
1923	561	16,818	16,375	1,384,570 78	84 55

COST OF INSTRUCTION IN THE EVENING SCHOOLS

Year	Drawing	Industrial	High	Elementary	Director	Total
1918.....	\$565 00 ¹	\$2,716 00 ¹	\$2,268 50	\$5,910 00	\$300 00	\$11,759 50 ¹
1919.....	674 50 ²	4,992 50 ²	3,491 50	8,109 00	—	17,267 50 ²
1920.....	818 50 ³	5,983 00 ³	4,763 86	10,516 64	—	22,082 00 ³
1921.....	525 00 ⁴	4,824 60 ⁴	3,304 00	8,944 50	—	17,598 10 ⁴
1922.....	518 00 ⁵	3,867 00 ⁵	2,392 00	7,045 00	—	13,822 00 ⁵
1923.....	787 00	6,319 20	3,714 00	11,437 00	—	22,257 20

GENERAL STATISTICS

Population of Cambridge

1875.....	47,838	1905.....	97,434
1885.....	59,600	1910.....	104,391
1895.....	81,643	1915.....	108,822
1920.....	109,646		

School Census

Number of children in the city between five and sixteen years of age: boys, 10,944; girls, 11,105.....	22,049
Number in the city between five and seven.....	3,569
Number in the city between seven and fourteen	14,626
Number in the city between fourteen and sixteen.....	3,854
Number in the public schools between five and sixteen.....	14,948
Number in the private schools between five and sixteen.....	6,352
Not not attending school between five and sixteen.....	749

Schools and Classrooms, December, 1923

High and Latin School ⁶	1	Classrooms in use.....	60
Rindge Technical School ⁷	1	Classrooms in use.....	36
Continuation School	1	Classrooms in use.....	8
Elementary Schools ⁸	27	Classrooms in use.....	332
Kindergartens	18	Classrooms in use.....	19
Evening Industrial School	1	Classrooms in use.....	9
Evening Drawing Schools.....	2	Classrooms in use.....	3
Evening High School.....	1	Classrooms in use.....	15
Evening Elementary Schools.....	7	Classrooms in use.....	56
Evening Trade School	1	Classrooms in use.....	8
Whole number of Day Schools			30
Whole number of classrooms for Day Schools.....			455
Whole number of Evening Schools			10
Whole number of classrooms for Evening Schools.....			91

¹ This amount includes \$589.74 received from Smith-Hughes Fund.² This amount includes \$880.19 received from Smith-Hughes Fund.³ This amount includes \$583.36 received from Smith-Hughes Fund.⁴ This amount includes \$432.50 received from Smith-Hughes Fund.⁵ This amount includes \$468.67 received from Smith-Hughes Fund.⁶ This school occupies two buildings and has assembly halls, libraries, lecture rooms, recitation rooms, chemical and physical laboratories, a drawing room and a gymnasium.⁷ This school occupies three buildings, and has an assembly hall, drawing rooms, recitation rooms, chemical, electrical and physical laboratories, and rooms for various kinds of shop work.⁸ Sixteen of these schools have assembly halls.

NUMBER OF TEACHERS IN THE DAY SCHOOLS

December	High and Latin School	Rindge Technical School	Elemen- tary Schools	Kinder- gartens	Contin- uation School	Directors and Special Teachers	Total
1919.....	87	35	332	31	—	33	518
1920.....	83	34	335	31	11	22	516
1921.....	88	40	338	30	11	31	538
1922.....	95	48	348	35	10	32	568
1923.....	100	44	340	33	10	34	561

ATTENDANCE AT ALL THE DAY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attend- ance	Per Cent of Attend- ance
	Boys	Girls	Total			
1919.....	8,330	8,304	16,634	14,440	13,034	90.2
1920.....	8,459	8,091	16,550	15,085	13,710	90.8
1921.....	8,516	8,228	16,744	15,385	14,092	91.5
1922.....	8,876	8,494	17,370	16,123	14,856	92.1
1923.....	9,329	8,748	18,077	16,375	15,046	91.8

ATTENDANCE AT THE HIGH AND LATIN SCHOOL

Year	Number Registered			Average Number Belonging	Average Daily Attend- ance	Per Cent of Attend- ance
	Boys	Girls	Total			
1919.....	622	1,525	2,147	1,908	1,757	92.2
1920.....	668	1,369	2,037	1,909	1,744	91.3
1921.....	700	1,327	2,027	1,932	1,845	95.4
1922.....	890	1,538	2,428	2,291	2,117	92.4
1923.....	1,021	1,780	2,801	2,499	2,339	93.5

ATTENDANCE AT THE RINDGE TECHNICAL SCHOOL

Year	Number of Pupils Registered	Average Belonging Number	Average Attendance Daily	Per Cent of Attendance
1919.....	697	585	544	92.9
1920.....	724	673	630	93.6
1921.....	734	660	608	92.1
1922.....	910	806	743	92.1
1923.....	1,009	829	761	91.8

ATTENDANCE AT THE GRAMMAR SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per Cent of Attendance
	Boys	Girls	Total			
1919.....	2,620	3,592	7,212	6,711	6,145	91.5
1920.....	3,637	3,606	7,243	6,671	6,192	92.8
1921.....	3,563	3,602	7,165	6,726	6,227	92.5
1922.....	3,581	3,605	7,186	6,885	6,476	94.0
1923.....	3,720	3,647	7,367	6,961	6,538	93.9

ATTENDANCE AT THE PRIMARY SCHOOLS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per Cent of Attendance
	Boys	Girls	Total			
1919.....	2,933	2,745	5,678	4,558	4,049	88.8
1920.....	2,945	2,677	5,622	5,132	4,595	89.5
1921.....	3,079	2,815	5,894	5,384	4,849	90.0
1922.....	3,081	2,881	5,962	5,453	4,968	91.1
1923.....	3,116	2,866	5,982	5,415	4,872	89.9

ATTENDANCE AT THE KINDERGARTENS

Year	Number Registered			Average Number Belonging	Average Daily Attendance	Per Cent of Attendance
	Boys	Girls	Total			
1919.....	458	442	900	678	539	79.9
1920.....	485	439	924	700	549	78.4
1921.....	440	484	924	683	563	82.4
1922.....	414	470	884	688	552	80.2
1923.....	463	455	918	670	536	79.9

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE HIGH AND LATIN SCHOOL

September	Boys	Average Age		Girls	Average Age
1919.....	216	14 years	0 month	427	14 years 3 months
1920.....	242	14 years	2 months	500	14 years 3 months
1921.....	334	14 years	3 months	625	14 years 2 months
1922.....	304	13 years	11 months	654	14 years 2 months
1923.....	283	14 years	4 months	520	14 years 2 months

NUMBER OF PUPILS GRADUATED FROM THE HIGH AND LATIN SCHOOL

Year	Boys	Average Age	Girls	Average Age
1919.....	65	17 years 10 months	181	17 years 9 months
1920.....	94	17 years 5 months	173	17 years 7 months
1921.....	95	17 years 6 months	174	17 years 3 months
1922.....	99	17 years 3 months	196	17 years 1 month
1923.....	116	17 years 9 months	208	17 years 8 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE RINDGE TECHNICAL SCHOOL, WITH THE NUMBER OF GRADUATES

September	Admitted	Average Age	Graduated in June	Average Age
1919.....	328	14 years 3 months	57	18 years 2 months
1920.....	336	14 years 5 months	51	17 years 9 months
1921.....	454	14 years 10 months	54	18 years 2 months
1922.....	451	14 years 7 months	66	17 years 8 months
1923.....	391	14 years 10 months	84	17 years 10 months

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR SCHOOLS

June	Boys	Average Age	Girls	Average Age
1919.....	408	14 years 6 months	399	13 years 7 months
1920.....	485	14 years 2 months	455	14 years 3 months
1921.....	467	13 years 10 months	515	14 years 2 months
1922.....	495	13 years 11 months	557	14 years 3 months
1923.....	513	14 years 4 months	514	14 years 3 months

NUMBER OF PUPILS COMPLETING THE PRIMARY COURSE OF STUDY

Year	Boys	Average Age	Girls	Average Age
1919.....	595	9 years 7 months	588	8 years 9 months
1920.....	608	9 years 7 months	623	9 years 4 months
1921.....	683	9 years 6 months	700	9 years 4 months
1922.....	719	9 years 6 months	699	9 years 5 months
1923.....	750	9 years 5 months	705	9 years 3 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS

Year	In Four Years or Less	In Five Years	In Six Years	In More than Six Years
1919.....	18 per cent.	64 per cent.	15 per cent.	3 per cent.
1920.....	11 per cent.	61 per cent.	19 per cent.	9 per cent.
1921.....	10 per cent.	65 per cent.	22 per cent.	3 per cent.
1922.....	10 per cent.	61 per cent.	25 per cent.	4 per cent.
1923.....	8 per cent.	61 per cent.	26 per cent.	5 per cent.

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS

Year	In Less than Three Years	In Three Years	In Four Years	In More than Four Years
1919.....	4 per cent.	51 per cent.	31 per cent.	14 per cent.
1920.....	3 per cent.	56 per cent.	28 per cent.	13 per cent.
1921.....	3 per cent.	52 per cent.	31 per cent.	14 per cent.
1922.....	4 per cent.	53 per cent.	28 per cent.	15 per cent.
1923.....	3 per cent.	55 per cent.	29 per cent.	13 per cent.

NUMBER OF PUPILS IN THE HIGH AND LATIN SCHOOL, DECEM- BER, 1923

Year	Boys	Girls	Total	Per Cent
Post Graduate.....	20	26	46	.017
Twelfth	174	258	432	.165
Eleventh.....	206	318	524	.198
Tenth	339	520	859	.325
Ninth	280	500	780	.295
Total.....	1,019	1,622	2,641	—

NUMBER OF PUPILS IN THE RINDGE TECHNICAL SCHOOL,
DECEMBER, 1923

(This school is for boys only. It became a part of the public school system
January 1, 1899.)

Year	Boys	Per Cent.
Post Graduate	20	.024
Twelfth	117	.139
Eleventh	147	.175
Tenth	219	.261
Ninth	336	.401
Total	839	—

NUMBER OF PUPILS IN THE GRAMMAR SCHOOLS, DECEMBER, 1923

Year	Boys	Girls	Total	Per Cent.
Eighth	533	544	1,077	.157
Seventh	590	576	1,166	.168
Sixth	673	729	1,402	.204
Fifth	759	774	1,533	.224
Fourth	885	817	1,702	.247
Total	3,440	3,410	6,880	—

NUMBER OF PUPILS IN THE PRIMARY SCHOOLS, DECEMBER, 1923

Year	Boys	Girls	Total	Per Cent.
Third	824	747	1,571	.294
Second	845	818	1,663	.312
First	1,100	999	2,099	.394
Total	2,769	2,564	5,333	—

NUMBER OF PUPILS AND TEACHERS IN THE KINDERGARTENS

Year	Boys	Girls	Total	Number of Teachers
1919	419	382	801	31
1920	368	402	770	31
1921	344	400	744	30
1922	374	398	772	35
1923	426	393	819	33

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED

1918	1919	1920	1921	1922	1923
4,229	3,004	2,622	1,629	1,753	2,105
7,967*	5,749*	5,452*	4,899*	5,010*	5,804*

*Issued to minors over sixteen years of age.

SUMMARY

Number of Pupils Belonging in December, 1923

Number of pupils in the High and Latin School.....	2,641
Number of pupils in the Rindge Technical School.....	839
Number of pupils in the Grammar Grades	6,880
Number of pupils in the Primary Grades	5,333
Number of pupils in the Kindergarten	819
Number of pupils in the Open Air Classes.....	129
Number of pupils in Special Classes	106
Number of pupils in the Ungraded Classes	71
Number of pupils in the public schools, December, 1923.....	16,818
Number of pupils in the public schools, December, 1922.....	16,773
Increase of pupils, December, 1923.....	45
Increase of pupils, 1914.....	196
Increase of pupils, 1915.....	127
Decrease of pupils, 1916.....	482
Decrease of pupils, 1917.....	91
Decrease of pupils, 1918.....	81
Increase of pupils, 1919.....	153
Decrease of pupils, 1920.....	62
Increase of pupils, 1921.....	867
Increase of pupils, 1922.....	237
Increase of pupils, 1923.....	45

NUMBER OF PUPILS REGISTERED IN THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE

	1920-1921	1921-1922	1922-1923	1923-1924
Number registered	53	61	48	68
Average attendance	27	36	23	32

NUMBER OF PUPILS REGISTERED IN THE EVENING INDUSTRIAL SCHOOL, WITH THE AVERAGE ATTENDANCE

	1920-1921	1921-1922	1922-1923	1923-1924
Number registered	343	349	315	380
Average attendance	158	190	131	147

NUMBER OF PUPILS REGISTERED IN THE EVENING HIGH SCHOOL, WITH THE AVERAGE ATTENDANCE

	1920-1921	1921-1922	1922-1923	1923-1924
Number registered	428	420	437	513
Average attendance	221	246	208	224

NUMBER OF PUPILS REGISTERED IN THE EVENING ELEMENTARY SCHOOLS WITH THE AVERAGE ATTENDANCE*

	1920-1921	1921-1922	1922-1923	1923-1924
Number registered	1,605	1,437	1,343	1,629
Average attendance	817	837	746	842

*Including the Evening Trade School for Women.

STATISTICS FOR BOYS' CONTINUATION SCHOOL

Number enrolled to January 1.....	873
Number returned to regular schools.....	12
Number discharged by reaching sixteenth birthday to January 1....	325
Number discharged to other towns January 1.....	337
Number of full-time pupils on January 1.....	24

Number of Boys in Each Grade, Enrolled to January 1

Grade 4	—
Grade 5	—
Grade 6	187
Grade 7	237
Grade 8	235
High School	176
Special	39
Average grade of total enrollment for 1923.....	7.5

STATISTICS FOR GIRLS' CONTINUATION SCHOOL

Number enrolled to January 1.....	635
Number returned to regular schools.....	11
Number discharged by reaching sixteenth birthday to January 1....	213
Number discharged to other towns to January 1.....	95
Number of full-time pupils on January 1.....	11

Number of Girls in Each Grade, Enrolled to January 1

Grade 4	14
Grade 5	13
Grade 6	185
Grade 7	144
Grade 8	280
High School	79
Average grade of total enrollment for 1923.....	7.7

VACATION SCHOOLS

Fresh Pond Day Camp, July 9, 1923, to August 17, 1923
(At the Haggerty School Building)

Statistics

Number enrolled	335
Average number belonging	297
Average number attending	255
Number of days school was in session.....	29
Per cent. of attendance.....	86

Central Day Camp, July 9, 1923, to August 17, 1923
At the High and Latin School Building

Statistics

Number enrolled	286
Average number belonging	199
Average number attending.....	174
Number of days school was in session.....	29
Per cent. of attendance.....	87

Day's Program for the Day Camps

A.M.

9.00 Children meet group teacher at starting point for transportation to the school.

9.30 Opening of school; roll call.

9.40 Assembly exercises; setting-up drill; corrective gymnastics.

10.00 Morning lunch of crackers and milk.

10.05 Bird walks, nature trips, supervised play.

11.30 Rest period in grove.

VACATION SCHOOLS—Concluded

Day's Program for the Day Camps—Concluded

P.M.

12.10 Wash-up period.

12.20 Dinner.

1.20 Tooth brush drill.

1.40 Short rest period in grove.

2.00 Games, walks, etc., in park.

2.45 Shower baths at school.

3.00 Grouping for transportation.

3.15 Afternoon lunch of crackers and milk.

3.30 Dismissal (children accompanied on homeward trip by teacher).

A vacation school was also opened in the English High Building for the benefit of the pupils of the freshman and sophomore classes who failed of promotion. The school opened on Wednesday, July 9, and continued until August 7. Four hundred and eleven pupils were registered under the charge of twenty-three teachers. The average attendance for the five weeks was three hundred and seventy-eight.

ATTENDANCE AT THE EVENING SCHOOLS, 1923-1924

Schools	Number Registered			Average Number Belonging	Average Attend- ance	Per Cent of Attend- ance
	Males	Females	Total			
Rindge Industrial Classes.....	380	—	380	204	147	72
Mechanical Drawing Classes..	49	—	49	30	24	80
Freehand Drawing Classes.....	19	—	19	13	8	61
Evening High School.....	208	305	513	301	224	74
Ellis School	34	122	156	119	98	82
Haggerty School	63	92	155	87	64	74
Kelley School	83	152	235	169	132	78
Putnam School	101	88	189	127	105	83
Roberts School	139	127	266	133	104	78
Thorndike School	60	94	154	88	74	84
Webster School	115	93	208	126	101	80
Women's Practical Arts School	—	266	266	187	165	89
Total	1,251	1,339	2,590	1,584	1,246	78

COST OF THE EVENING SCHOOLS, 1923-1924

Schools	Salaries of Teachers	Cost of Text-books and Supplies	Cost of Janitor Service	Total	Cost per Pupil
Rindge Industrial Classes	\$3,546 04	\$679 19	\$424 00	\$4,649 23	\$22 79
Mech'cal Drawing Classes	478 19	—	65 60	543 79	18 12
Freehand Drawing Classes	216 50	—	34 90	251 40	19 33
Evening High School.....	3,714 00	27 08	422 00	4,163 08	13 83
Ellis School	1,287 00	2 44	146 50	1,435 94	12 06
Haggerty School	1,437 50	31 90	157 50	1,626 90	18 70
Kelley School	2,095 50	10 87	199 25	2,305 62	13 64
Putnam School	1,522 50	7 52	175 00	1,705 02	13 42
Roberts School	1,646 50	11 62	170 25	1,828 37	13 74
Thorndike School	1,841 50	8 83	317 75	2,168 08	24 63
Webster School	1,410 50	—	281 50	1,692 00	13 42
Women's Prac. Arts Sch.	2,371 16	207 65	214 20	2,793 01	14 93
Music	196 00	—	—	196 00	—
Total	\$21,762 89	\$987 10	\$2,608 45	\$25,358 44	\$16 00

NUMBER OF ASSISTANT TEACHERS IN THE EVENING SCHOOLS,
1923-1924

Schools	Average Number of Assistant Teachers	
	1922-1923	1923-1924
Rindge Industrial Classes.....	16	13
Mechanical Drawing Classes.....	3	3
Freehand Drawing Classes.....	1	1
Evening High School.....	15	15
Ellis School	5	6
Haggerty School	8	8
Kelley School	12	11
Putnam School	9	8
Roberts School	9	8
Thorndike School	6	7
Webster School	6	7
Women's Practical Arts School.....	10	12
Total	100	99

NUMBER OF GRADUATES IN THE EVENING SCHOOLS, 1923-1924

Schools	Number of Graduates	
	1922-1923	1923-1924
Rindge Industrial Classes.....	18	23
Mechanical Drawing Class.....	1	—
Freehand Drawing Class.....	1	1
Evening High School.....	74	64
Ellis School	15	19
Haggerty School	12	10
Kelley School	14	15
Putnam School	50	28
Roberts School	9	17
Webster School	18	28
Total	212	205

ATTENDANCE AT THE STATE-AIDED CLASSES, 1923-1924

Schools	Numbered Registered			Average Number Belonging	Average Attend- ance	Per Cent of Attend- ance
	Males	Females	Total			
Rindge School:						
a. Industrial Classes.	380	—	380	204	147	72
b. Drawing Classes....	68	—	68	43	32	74
Rindge School Totals....	448	—	448	247	179	72
Practical Arts	—	266	266	187	165	89
Total	448	266	714	434	344	79

ATTENDANCE AT THE INDUSTRIAL CLASSES, 1923-1924

(For women in the elementary schools)

Schools	Number Registered	Average Number Belonging	Average Attendance	Per Cent. of Attendance
Ellis School	39	32	25	80
Haggerty School	87	54	37	68
Kelley School	65	39	24	61
Roberts School	47	17	11	65
Thorndike School	70	48	40	83
Webster School	36	23	19	82
Total	344	213	156	73

BUILDINGS USED FOR EVENING SCHOOL PURPOSES

Schools	Classes
Rindge School:	
<i>a.</i> Industrial Classes.....	Woodwork, ironwork, printing, mechanical drawing, architectural drawing, electricity, estimating, gas engine and auto repair work.
<i>b.</i> Drawing Classes.....	Freehand drawing.
High School	Academic, commercial.
Ellis, Haggerty, Kelley, Putnam, Roberts. Thorndike Webster Schools.....	English for foreigners, grammar school work, dressmaking, embroidery, civil service.
Women's Practical Arts School.....	Cooking, embroidery, sewing, millinery.

SIGHT AND HEARING TESTS

	1920	1921	1922	1923
Number enrolled	15,440	16,447	16,606	16,728
Number defective in sight.....	1,674	1,916	1,813	1,635
Number defective in hearing.....	160	222	239	164
Number of parents notified.....	1,645	1,862	1,813	1,666

SUMMARY OF THE ATTENDANCE OFFICERS' REPORTS,
SEPTEMBER, 1922, TO SEPTEMBER, 1923

Number of absences investigated	15,797
Truancy, first offence	404
Truancy, third offence	54
Children found wandering about the streets not belonging to any school	90
Such children sent to school	89
Visits to mercantile and manufacturing establishments.....	715
Children employed without certificate.....	47

CONTAGIOUS DISEASES REPORTED TO THE SCHOOLS BY THE
ATTENDANCE OFFICERS, JANUARY 1, 1923, TO JANUARY 1, 1924

Encephalitis lethargica	11
Influenza	84
Lobar pneumonia	197
Chicken pox	587
Diphtheria	257
Measles	1,158
Mumps	423
Scarlet fever	508
Whooping cough	1,050
German measles	27
Infantile paralysis	3
Cerebrospinal meningitis	3
Septic sore throat	8
Typhoid fever	15
Total	<hr/> 4,331

STATISTICS OF THE PRIVATE AND PAROCHIAL SCHOOLS TAKEN
BY THE ATTENDANCE OFFICERS, APRIL 1, 1924

Eight Parochial Schools, with an enrollment of.....	6,100
Five Private Schools, with an enrollment of.....	449
Total	<hr/> 6,549

TABULAR VIEW

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other.. Courses	Date of Appointment
High and Latin School			
Leslie L. Cleveland.....	Head Master.	Williams College, A.B.....	Jan. 1910
Chester M. Bliss.....	Master	Amherst College, A.B., A.M.	Sept. 1907
Thomas L. Bramhall....	Master	Harvard University, A.B.	Sept. 1910
Timothy F. Downey.....	Master	Harvard University, A.B.	Sept. 1912
Ethel G. McElroy.....	Dean	Radcliffe College, A.B., A.M.	Sept. 1911
Mary E. Murray.....	Dean	Radcliffe College, A.B.....	Sept. 1908
Hilda Russell.....	Dean	Wellesley College, A.B.; Kindergarten Training School*	Sept. 1912
Thomas L. Bramhall....	Head of Dept.	Harvard University, A.B.	Sept. 1910
Anna P. Butler.....	Head of Dept.	Trinity College, Washing- ton, D. C., A.B.; Boston University, A.M.*	Sept. 1909
George H. Cain.....	Head of Dept.	Potomac College, A.B.....	Sept. 1909
Cecil T. Derry†.....	Head of Dept.	Harvard University, A.B. A.M.	Oct. 1905
Timothy F. Downey.....	Head of Dept.	Harvard University, A.B.	Sept. 1912
Mary C. Hardy.....	Head of Dept.	Smith College, A.B.....	Dec. 1891
Lillian R. Hartigan.....	Head of Dept.	Emerson College of Ora- tory*	June 1915
Lillian C. Rogers.....	Head of Dept.	Boston University, A.B.....	Sept. 1893
Alice C. Baldwin.....	Teacher	Wellesley College, A.B.; Columbia University A.M.	Sept. 1895
Margaret M. Ball.....	Teacher	Lawrence Univ., Wis. A.B.	Feb. 1912
Edith T. Bates.....	Teacher	Framingham Normal School; courses at Sim- mons College.....	Sept. 1909
Margaret S. Bradbury..	Teacher	Radcliffe College, A.B.*...	Jan. 1902
Alice M. Brown.....	Teacher	Normal School of Gym- nastics; special courses	Sept. 1910
Natalie A. Browning....	Teacher	Radcliffe College, A.B.*...	Sept. 1913
Katharine A. Burke.....	Teacher	Special courses in sewing etc.	Oct. 1907
Ethel E. Carr.....	Teacher	Radcliffe College, A.B.....	Sept. 1908
Alice D. Chamberlain..	Teacher	Radcliffe College, A.B.....	Sept. 1900
Bertha L. Cogswell.....	Teacher	Boston University, A.B., A.M.	Jan. 1894
Helen B. Colson.....	Teacher	Radcliffe College, A.B.....	Sept. 1921
Elizabeth M. Conlin....	Teacher	Comer's Commercial Col- lege, Perrin Shorthand School	Dec. 1922
Joseph A. Coolidge.....	Teacher	Harvard University, A.B.; A.M.	Mar. 1892

* Attended the Wellington Training School.

† Resigned June, 1911, and reappointed September, 1912.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; and Other Courses	Date of Appointment
High and Latin School —Con.			
Charles Cote	Teacher	Boston College, A.B.....	Mar. 1923
Olive L. Cox.....	Teacher	Boston University, A.B....	Sept. 1922
Grace A. Coyle.....	Teacher	Radcliffe College, A.B., special courses	Sept. 1912
Gertrude H. Crooke.....	Teacher	Boston University, A.B.; Radcliffe College, A.M...	
Grace L. Deering.....	Teacher	Maine Seminary; courses abroad and at Radcliffe College	Sept. 1896 Feb. 1892
Grace E. Dennett.....	Teacher	Radcliffe College, A.B., A.M.; Simmons College, S.B.	Sept. 1907
Mary L. Diehl.....	Teacher	English High School; at- tended College of Com- merce, Simmons College and Harvard Summer School	Apr. 1915
Esther S. Dodge.....	Teacher	Boston University, A.B.....	Oct. 1897
Ellen E. Doherty.....	Teacher	Radcliffe College, A.B.*...	Sept. 1915
Sarah Dolan	Teacher	Radcliffe College, A.B.....	Sept. 1916
Agnes G. Donovan.....	Teacher	Bryant & Stratton Com- mercial College; courses at Simmons and Boston University	Sept. 1921
Joseph A. Donovan.....	Teacher	Massachusetts Institute of Technology, S.B.....	Sept. 1922
Elizabeth M. Driscoll....	Teacher	Boston University, A.B.....	Mar. 1914
Lillian E. Edgerley.....	Teacher	Farmington, N. H., High School; Bradford Acad- emy, 1 year; Western College, Ohio, 1 year; Bryant & Stratton Com- mercial College	Sept. 1916
Ruth B. Elliott.....	Teacher	Iowa State Normal School; Bryant & Stratton Com- mercial College	Sept. 1916
Sara L. Fisher.....	Teacher	Smith College, A.B.; spe- cial courses	Sept. 1910
Elizabeth B. Flanders..	Teacher	Framingham Normal Art School; courses at Rad- cliffe College	Sept. 1905
Margaret E. Ford.....	Teacher	Radcliffe College, A.B.; special courses	Oct. 1921
Louis N. Fougere.....	Teacher	Boston College; Little Rock, Ark., College, A.B.	Apr. 1924
Helen Getchell	Teacher	Boston University, A.B.; special courses	Feb. 1923

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
High and Latin School —Con.			
George H. Glasheen.....	Teacher	Fitchburg Business College; Boston University, B.B.A.	Oct. 1914
Dorothy Goldman	Teacher	Boston University, B.B.A..	Sept. 1922
Laura E. Gustafson.....	Teacher	Radcliffe College, A.B.....	Sept. 1923
Josephine E. Hagarty...	Teacher	Chicopee Normal School; Bay Path Commercial Institute; special courses at Harvard and Simmons	Sept. 1918
Aileen Hagerty	Teacher	Jackson College, A.B. special courses	Sept. 1922
Georgia Hardy	Teacher	Bryant & Stratton Commercial College; special courses at B. U. and Harvard College	Sept. 1922
Mabel Harrington	Teacher	North Adams Normal School; special courses at Simmons and Columbia Colleges	Apr. 1920
Rosemary Hogan†.....	Teacher	Radcliffe College, A.B.....	Sept. 1923
Elizabeth L. Huling.....	Teacher	Radcliffe College, A.B. A.M.	Sept. 1905
Horace E. Jacobs.....	Teacher	Brown University, A.B., A.M.; Medical School 1 year	Oct. 1915
Alice Kelley	Teacher	Radcliffe College, A.B.....	Sept. 1923
Sarah W. Kelly.....	Teacher	Wellesley College, A.B.....	Feb. 1911
Maud A. Lawson.....	Teacher	Radcliffe College, A.B.....	Sept. 1892
J. Benedictine Lee.....	Teacher	Radcliffe College	Sept. 1923
James H. Leonard.....	Teacher	Harvard University, A.B.; Law School, 1 year; Graduate School, 1 year	Sept. 1915
Katherine B. Lyons.....	Teacher	Radcliffe College, A.B.....	Sept. 1915
Ethel M. MacLeod.....	Teacher	Radcliffe College, A.B.....	Mar. 1906
Gertrude M. Mason.....	Teacher	Gorham, Maine, Normal School; Bryant & Stratton Commercial College, Springfield, Mass.	Feb. 1912
Inez McCaffrey	Teacher	Radcliffe College, A.B.; post-graduate course at Brown University	Sept. 1915
Mary R. McCarthy‡.....	Teacher	Radcliffe College, A.B.....	Dec. 1914
Henrietta E. McIntire..	Teacher	Radcliffe College, A.B., A.M.	Sept. 1891
Jane E. McKearin.....	Teacher	Wellesley College, A.B.*....	Sept. 1907

* Attended the Wellington Training School. † Was clerk in school from March, 1920.
‡ Was clerk in school from September, 1912.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
High and Latin School —Con. Josephine A. McLaughlin.....	Teacher	Dosse Normal School of Gymnastics; Sargent School of Gymnastics 1 year	Oct. 1916
Esther L. Miles.....	Teacher	St. Holyoke College, A.B.	Sept. 1921
Esther E. Morse.....	Teacher	Boston University, A.B....	Sept. 1915
Helen F. Morton.....	Teacher	Massachusetts Normal Art School	Apr. 1914
Mary Moulton*	Teacher	attended Wellesley College 3 years; special courses and studied abroad	Sept. 1890
Louisa P. Parker.....	Teacher	Westfield Normal School courses at Radcliffe College	Mar. 1881
George F. Ritter.....	Teacher	Boston College, A.B.; special courses	Nov. 1922
Eva M. Ruggli.....	Teacher	Radcliffe College, A.B.....	Feb. 1912
Ethel V. Sampson.....	Teacher	Radcliffe College, A.B.....	Sept. 1899
Albert M. Sateriale.....	Teacher	Harvard University, A.B..	Jan. 1921
Caroline A. Sawyer.....	Teacher	Boston University, A.B. Radcliffe College, A.M..	Sept. 1886
Adele Schroder	Teacher	Radcliffe College, 2 years studied abroad	Feb. 1916
Benjamin C. Scully.....	Teacher	Harvard University, A.B. special courses	Sept. 1922
Hester C. Sharkey.....	Teacher	Radcliffe College, A.B. special courses	May 1922
John J. Sheehan.....	Teacher	Bridgewater Normal School; Boston College A.B.	Sept. 1920
Ruth K. Skahan.....	Teacher	Trinity College, A.B.....	Sept. 1922
Madeleine L. Slade.....	Teacher	Salem Normal School special courses at Simmons College	Sept. 1916
Florence W. Smith.....	Teacher	Radcliffe College, A.B.....	Sept. 1897
Delia M. Stickney.....	Teacher	Institute of Technology S.B.	Sept. 1888
Annie F. Stratton.....	Teacher	Radcliffe College, A.B.....	Sept. 1899
Joseph C. Sullivan.....	Teacher	Boston College, A.B.; special courses	Jan. 1923
Mary E. Sullivan.....	Teacher	Radcliffe College, A.B.....	Sept. 1923
Mary C. Supple.....	Teacher	Radcliffe College, A.B.....	Sept. 1922
Margaret Thurston	Teacher	Radcliffe College, A.B.....	Sept. 1922

* On leave of absence.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
High and Latin School —Con. Blanche T. Townsend...	Teacher	Salem Normal School; Diploma of Alliance Française, Paris; Certificate of Sorbonne, Paris; special courses	Sept. 1900
Agnes L. Tracy.....	Teacher	Cambridge High School; Radcliffe College, 3 years	Oct. 1904
Mabel D. Watson.....	Teacher	Radcliffe College, A.B.....	Sept. 1901
Lillian A. Welsh.....	Teacher	Bay Path Institute; special courses	Oct. 1921
Katherine M. Whalen....	Teacher	Boston University, B.B.A.; special courses	Mar. 1924
Alice S. Willoughby.....	Teacher	Massachusetts Normal Art School; Radcliffe College, 1 year.....	Mar. 1914
Bessie L. Forbes.....	Dietitian	Miss Farmer's School of Cookery; special courses at Columbia and Simmons	Sept. 1916
Leander A. MacDonald	Teacher-Coach	Bridgewater Normal School; Harvard College; Tufts College A.B.	Sept. 1918
Edward J. Danehy.....	Permanent Substitute	Boston College, A.B.; Massachusetts Institute of Technology, B.S.....	Jan. 1924
Helena Dunn	Permanent Substitute	Fitchburg Normal School; Radcliffe College, A.B...	Nov. 1921
Charles G. Harrington.	Permanent Substitute	Boston College, A.B.	Sept. 1923
Maurice E. Phelan.....	Permanent Substitute	Harvard College, M.A..	Feb. 1924
Katharine C. Walsh.....	Permanent Substitute	Trinity College, A.B.....	Apr. 1923
Agnes M. Wadden.....	Stenographer	Cambridge High and Latin School	Nov. 1921
Elizabeth G. Faulkner..	Clerk	Mt. St. Joseph Academy....	Nov. 1920
Rindge Technical School			
John W. Wood, Jr.....	Head Master	Harvard University, S.B...	Jan. 1899
James F. Conlin.....	Master	Harvard University, A.B., A.M.	Feb. 1905
Myra I. Ellis.....	Head of Dept.	Cambridge Training School; Berlin University	Feb. 1878
Charles A. Linehan.....	Head of Dept.	Harvard University, S.B	Sept. 1914
Edward R. Markham....	Head of Dept.	Wesleyan Academy; courses in Mechanical Engineering	Sept. 1903

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Rindge Technical School—Con.			
Edward A. Sullivan.....	Head of Dept.	Boston College, A.B., A.M.	Sept. 1921
Anna R. Ward.....	Head of Dept.	Indiana State University, A.B.	Sept. 1909
Frank H. Banks.....	Teacher	Common Schools	Sept. 1921
Caroline L. Blake.....	Teacher	Wheaton College, A.B.; special courses	Sept. 1894
Ingolf V. Bockmann.....	Teacher	Norway Technical School; attended Sloyd Schools..	Feb. 1911
J. David Bourgeois.....	Teacher	Attended St. Francis Xavier College, 2 years; Alexander Hamilton Institute, 3 years.....	Oct. 1921
Edgar R. Breed.....	Teacher	Massachusetts Normal Art School	Nov. 1912
Vincent P. Burke.....	Teacher	Boston College, A.B.....	Apr. 1921
Mary H. Cunningham..	Teacher	Simmons College, B.S.; special courses	Sept. 1918
Joseph B. Davidson*....	Teacher	Malden High School; special courses	Apr. 1909
William M. Fraser.....	Teacher	Colburn Classical Institute, 1 year; Colby College, 2 years.....	Apr. 1921
John J. Garvey.....	Teacher	Boston College, A.B.....	Sept. 1922
John J. Gately.....	Teacher	Cambridge High School....	Sept. 1921
Walter R. Gilbert.....	Teacher	Somerville High School; special courses	Oct. 1919
Kenneth W. Goepper....	Teacher	Harvard College, A.B.; Harvard Law School.....	Oct. 1921
George H. Gohlke.....	Teacher	University of Wisconsin, B.L.	Sept. 1911
Walter Gomes	Teacher	Rindge Technical School; special courses	Mar. 1919
Evan W. Griffiths.....	Teacher	Harvard University, A.B., A.M.	Sept. 1903
John C. Hall.....	Teacher	Boston University, S.B....	Sept. 1908
Chester W. Holmes.....	Teacher	Harvard College, S.B.; University of Pittsburgh and Boston University...	Sept. 1922
Francis P. Jordan.....	Teacher	Attended Waltham High School	Oct. 1919
Lester W. Ladd.....	Teacher	Harvard University, B.A.S.	Sept. 1910
Henry C. Lynch.....	Teacher	Harvard University, A.B.; University Lyons, France	Sept. 1920
Francis T. McCabe.....	Teacher	University of Maine, B.S.; special courses	Sept. 1922

* Temporary teacher from October, 1918.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Rindge Technical School—Con.			
James T. McElligott.....	Teacher	Harvard University, A.B. A.M.; Division of Education	Sept. 1915
William P. McLaughlin	Teacher	Fordham University, A.B	Oct. 1921
Saville Moore	Teacher	Common Schools	Apr. 1921
Jane O. Mosher.....	Teacher	Boston University, A.B.*..	Sept. 1911
William Mullins	Teacher	University of Maine, A.B	Sept. 1916
John Y. Murray.....	Teacher	Prince Wales College; special courses	Sept. 1921
George F. Odenwald....	Teacher	Boston College, A.B.....	Sept. 1921
Abbott O. Paine.....	Teacher	Rindge Manual Training School	Sept. 1915
Otis A. Philbrick.....	Teacher	Massachusetts Normal Art School	Sept. 1911
Leverett L. Preble.....	Teacher	Private instruction and shop experience; special courses	Sept. 1910
Charles H. Richert.....	Teacher	Boston Normal Art School	Dec. 1905
Gertrude B. Rogers.....	Teacher	Attended Colby College 2 years; Tufts College 2 years, A.B.....	Feb. 1911
Michael J. Skinner.....	Teacher	Common schools; shop experience	Mar. 1922
James G. Telfer.....	Teacher	Common Schools	June 1889
John M. Tobin.....	Teacher	Boston College, A.B.....	Oct. 1921
George A. Wickson.....	Teacher	Harvard College, A.B.....	Sept. 1922
William J. Kelleher.....	Permanent Substitute	Boston College, A.B.....	Jan. 1924
Cornelius Sullivan	Toolman	Common Schools	Sept. 1919
Marion L. Pike.....	Secretary	Cambridge Latin School....	Sept. 1909
Mary Cassidy	Clerk	St. Mary's High School....	Dec. 1920
Agassiz School			
H. Warren Foss.....	Master	Colby College, A.B.; special courses at Harvard.	Sept. 1904
Lillian M. Cuddy.....	Master's Asst.	Salem Normal School*.....	Dec. 1904
Edith Waugh	3	Bridgewater Normal School; special courses..	Apr. 1921
Susan L. Senter.....	7	Medway High School*.....	Sept. 1898
Marietta L. McNamara	6	Cambridge High School; attended Salem Normal School	Nov. 1912
Ada M. Litchfield.....	5	Boston Normal School*....	May 1891
Clara W. Ruggli.....	5-4	Bridgewater Normal School; special college course*	Sept. 1900
Frances W. Dawson.....	1	Bradford Academy; special courses	Sept. 1902

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Agassiz School—Con.			
Lucy A. Roper.....	3	Salem Normal School*.....	Sept. 1907
Rose M. Hill.....	2	Kindergarten Training School*	Sept. 1911
Margaret C. Fitzgerald	2-1.....	Massachusetts Normal Art School.....	Dec. 1916
Grace C. Stedman.....	1	Cambridge High School; Kindergarten Training School	May 1896
Boardman School			
Elizabeth J. Karcher....	Principal	Cambridge Training School; special courses	May 1881
Sybil L. M. Cronin.....	3	Salem Normal School*.....	Sept. 1912
Eileen R. Marshall.....	2	Framingham Normal School	Apr. 1917
Malvina M. Joslin.....	2	Northfield, Vt., Normal School	May 1891
Mary C. Ward.....	2	Salem Normal School*.....	Mar. 1911
Nadine F. Wright.....	2	Radcliffe College.....	Dec. 1922
Marion C. Smith.....	1	Salem Normal School.....	Sept. 1922
Florence McCarthy.....	1	Lowell Normal School.....	Jan. 1924
Ellis School			
Ernest Libby.....	Master	Bridgewater Normal School; Chicago University	Sept. 1906
Katharine M. Greene....	Master's Asst.	Salem Normal School*.....	Sept. 1904
Adelaide G. Bunker.....	8	Castine, Me., Normal School; attended Bridge-water Normal School....	Nov. 1902
Mary A. Stephenson....	8	Bridgewater Normal School*	Sept. 1898
Florence M. Dudley.....	7	Salem Normal School*.....	Dec. 1897
Mary T. Cashman.....	7	Salem Normal School*.....	Nov. 1915
Mary A. Macklin.....	7	Salem Normal School*.....	Dec. 1902
Ellen T. O'Keefe.....	6	Boston Normal School; special courses	Sept. 1903
M. Alice Mahoney.....	6	Salem Normal School.....	Sept. 1916
Alice G. Dacey.....	5-6	Salem Normal School*.....	Jan. 1909
Elizabeth J. O'Keefe....	4	Kindergarten Training School, Hyannis Normal School; special courses..	Oct. 1905
Felton School			
C. Florence Smith.....	Principal, 3.....	Boston Normal School; Harvard Summer School*	Jan. 1888

* Attended the Wellington Training School.

Tabular View—Continued

School and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Felton School—Con. Annie M. Street.....	3	Westfield Normal School; attended Summer Institute	Sept. 1889
Marcia R. Bowman.....	2	Framingham Normal School*.....	Sept. 1895
Helen M. Blunt.....	1-2	Bridgewater Normal School.....	Sept. 1922
Lillian M. Brown.....	1	Lowell Normal School*.....	Nov. 1918
Agnes C. Doherty.....	Open Air	Kindergarten Training School*.....	Sept. 1913
Marguerite E. Brenner	Open Air	Lowell Normal School.....	Nov. 1918
Fletcher School George B. Colesworthy	Master	Bowdoin College, A. B.; Harvard University, A. B.	Sept. 1903
Nellie A. Coburn.....	Master's Asst	Lowell High School; attended Private Seminary	Sept. 1901
Emma G. Wentworth....	8	Salem Normal School*.....	Oct. 1902
Eva A. Weston.....	7	Bridgewater Normal School	Sept. 1922
Eleanor E. O'Brien.....	7	Salem Normal School*.....	Sept. 1909
Gertrude M. Baker.....	6	Radcliffe College, A. B.*..	Sept. 1905
Mary D. McConologue..	6	Salem Normal School.....	Jan. 1924
Helen M. Maguire.....	5	Salem Normal School*.....	Jan. 1915
Blanche M. Gould.....	5	Colby Academy, N. H.; Boston University, 2½ years	Oct. 1904
Elmira F. Hall.....	4	Cambridge High School*	†May 1897
Mildred A. Sullivan.....	4	Fitchburg Normal School	Feb. 1923
Martha B. Perkins.....	3	Salem Normal School.....	Sept. 1904
Mae E. Sullivan.....	3	Lowell Normal School.....	Nov. 1919
Catherine Culhane.....	2	Kindergarten Training School*.....	Jan. 1915
Eva A. Taylor.....	2	Cambridge High School*.	May 1886
Margaret E. Jones.....	1	Kindergarten Training School*.....	Sept. 1913
Ethel M. Cooper.....	1	Lowell Normal School.....	Nov. 1915
Eleanor E. O'Brien.....	Ungraded	Salem Normal School*.....	Sept. 1909
Gannett School Mary A. Rady.....	Principal, 2....	Normal School and School of Expression; special courses	Sept. 1880
Elizabeth A. Carroll....	3	Framingham Normal School*.....	Jan. 1915
Julia V. Looney.....	2	Salem Normal School.....	Dec. 1919

* Attended the Wellington Training School.

† Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Gannett School—Con. Annie M. Billings.....	1-2	Cushing Academy; attended Quincy Training School	May 1893
Hilda A. Anderson.....	1	Salem Normal School.....	Sept. 1920
Mary Deasy	1	Lowell Normal School.....	Jan. 1924
Gore School			
Mary E. Mulloney.....	Principal	Cambridge Training School; special courses...	Sept. 1878
Catherine L. Dinneen....	3	Salem Normal School*.....	Dec. 1908
Anastasia R. Peters....	3	Newton High School; special courses*	Oct. 1892
Agnes M. Harrington...	2	Salem Normal School.....	Oct. 1919
Julia G. McHugh.....	2	Salem Normal School*.....	Oct. 1894
Ethel I. Tansey.....	2	Salem Normal School.....	Jan. 1924
Marguerite F. Doherty..	1	Lowell Normal School*.....	Sept. 1913
Katharine A. Hegarty..	1	Coburn, Me., Classical Institute; special courses	Sept. 1896
Irene F. Kline.....	1	Lowell Normal School.....	Jan. 1920
Frances M. Donovan....	Ungraded	Kindergarten Training School*	Nov. 1912
Haggerty School			
Raymond A. FitzGerald	Master	Harvard University, S.B., Ed. M.	Sept. 1913
Clintina E. Curtis.....	Master's Assi	Plymouth, N. H., Normal School	Dec. 1907
Alice C. Sullivan.....	7	Fitchburg Normal School*	Nov. 1915
Margaret G. Cronin....	6	Fitchburg Normal School*	Feb. 1917
Katharine A. Brennan..	5	Bridgewater Normal School	Nov. 1918
Julia M. Davis.....	4	Baltimore High School; Maryland Normal School, 1 year.....	May 1900
Ethel K. Barry.....	4	Fitchburg Normal School..	Sept. 1921
Evelyn M. Twohig.....	3	Salem Normal School.....	Oct. 1921
Helen A. Guiney.....	2-3	Lowell Normal School.....	Apr. 1923
Mary A. O'Connor.....	2	Salem Normal School*.....	Nov. 1915
Harriet R. Harrington..	1	St. Johnsbury Academy; special courses	Sept. 1897
Anna G. Lynch.....	1	Lowell Normal School.....	Jan. 1919
Harvard School			
William L. MacGregor.	Master	Richmond, N. S., High School; attended Hyanis Normal School.....	Sept. 1906
Katharine L. Carr.....	Master's Assis	Potsdam, N. Y., Normal School	Nov. 1901

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Harvard School—Con. Marcia E. R. Hardy.....	8	Farmington, Me., Normal School; Maine Seminary, 2 years.....	†Sept.1916
Marguerite L. Harris....	8	Framingham Normal School*	Apr. 1914
Addie L. Bartlett.....	7	Castine, Me., Normal School; special courses..	Sept. 1890
Katherine F. Smith.....	7	Bridgewater Normal School*	Sept. 1912
Annie B. Lowell.....	7	Portland, Me., Normal School	Jan. 1898
Frances Fabyan	6	Cambridge Training School	Apr. 1878
Elizabeth L. Setchell....	3	Salem Normal School.....	†Sept.1888
Nina L. Kendall.....	3	Randolph, Vt., Normal School	Sept. 1909
Grace I. Nelligan.....	5	Salem Normal School*.....	Sept. 1911
Esther M. Spaulding....	5	Framingham Normal School *.....	Nov. 1918
Lillian B. Dorney.....	5	Framingham Normal School	Jan. 1920
Helen M. Welch.....	4	Lowell Normal School.....	Nov. 1918
May M. Strong.....	4	Gloucester High School; Gloucester Training School; special courses..	May 1917
Julia T. Galvin.....	4	Lowell Normal School.....	Jan. 1924
H. Maud Maclean.....	Special	University of New Brunswick. B.A.*	Mar. 1896
Carolyn E. MacDonald.	Special Class	Salem Normal School*.....	Jan. 1909
Houghton School James E. White.....	Master	Bridgewater Normal School; Sloyd School; special courses	Jan. 1906
R. Emily Penny.....	Master's Asst.	Salem Normal School: special courses*	June 1893
Helene M. Seils.....	7	Salem Normal School*.....	Sept. 1909
Anna T. Shea.....	6	Salem Normal School.....	†Sept.1920
Hattie Shepherd	6	Cambridge Training School: special courses..	Sept. 1882
Katharine F. Callahan..	5	Salem Normal School*.....	Nov. 1903
Mary L. Edmunds.....	5	Salem Normal School*.....	Jan. 1915
Grace S. Beckwith.....	4	Westfield Normal School; special courses	†Sept.1904
Edith M. Snow.....	4	Lowell Normal School.....	Nov. 1920
Anastasia Donovan	3	Salem Normal School.....	Sept. 1919

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† Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Houghton School—Con. Millie A. Isaac.....	3	Salem Normal School; Evening Freehand Course, Massachusetts Normal Art School, 2 years*	Sept. 1909
Gertrude Gorman.....	2	Salem Normal School.....	Oct. 1919
Bernice M. McKeever..	2	Bridgewater Normal School	Sept. 1922
Elizabeth M. Kline.....	1	Salem Normal School*.....	Sept. 1912
Elizabeth D. Pierce.....	1	Kindergarten Training School; special courses..	Sept. 1913
Josephine L. Lynch.....	Special Class..	Lowell Normal School.....	Nov. 1919
Kelley School John F. Lynch.....	Master	Boston Normal School; Tufts College, A.B.; special courses	Feb. 1922
Catharine A. McLean..	Master's Asst.	Salem Normal School*.....	Oct. 1899
Florence E. Hunter.....	7	Castleton, Vt., Normal School; Troy Conference Academy, 3 years; summer schools; special courses	Feb. 1900
Esther D. Paul.....	7	Boston University, A.B.*..	Oct. 1899
Ellen A. Kidder.....	5	Teachers' Courses and Summer Courses at Harvard*	Oct. 1890
Maude M. Dutton.....	5	Bridgewater Normal School*	Oct. 1899
Fannie M. Field.....	5	Bridgewater Normal School	†Oct. 1921
Agnes M. MacLean.....	5	Framingham Normal School	Nov. 1918
Winifred A. Briggs.....	4	Gorham, Me., Normal School; special courses..	Sept. 1921
Anna W. Browning.....	3	Plymouth, N. H., Normal and Training School; special courses at Radcliffe	Nov. 1917
Ellen T. Carroll.....	3	Kindergarten Training School*	Sept. 1907
Helena O'Loughlin.....	2	Lowell Normal School*.....	Nov. 1915
Elizabeth M. McCann..	2	Salem Normal School*.....	Apr. 1917
Elizabeth McLaughlin..	2	Lowell Normal School.....	Sept. 1922
Olive L. Cook.....	1	Framingham Normal School; summer courses	Apr. 1905
Ethel V. Igo.....	1	Lowell Normal School*.....	Oct. 1921

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† Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Kelley School—Con.			
Mary A. Maguire.....	1	Salem Normal School*.....	Sept. 1913
Anne E. Murphy.....	1	Salem Normal School.....	Apr. 1923
Mary E. Regan.....	Special Class..	Salem Normal School*.....	Oct. 1899
Lowell School			
Margaret Kidd	Principal, 4....	Cambridge Training School	Sept. 1880
Catherine A. McGuinness	2-3	New Bedford Normal and Training School; special courses	Dec. 1921
Eliza F. McLean.....	1	Sudbury High School; private business school; Hyannis Normal School, 2 years	Apr. 1918
Merrill School			
Louise W. Harris.....	Principal	Cambridge Training School; special courses..	Jan. 1876
Katharine Pendergast..	3	Warren High School*.....	Sept. 1909
Nellie F. Walker.....	3	Kennebunk, Me., High School; attended commercial college.....	Sept. 1899
Margaret F. Dwyer.....	2	Kindergarten Training School; special courses..	Feb. 1914
Margaret C. Boland.....	2	Bridgewater Normal School*	Dec. 1916
Marion B. Maguire.....	1	Framingham Normal School*	June 1894
Gertrude S. Thayer.....	1	Salem Normal School*.....	Sept. 1903
Margaret O'Reilly	1	Salem Normal School.....	Nov. 1919
Morse School			
John J. Salmon.....	Master	Holy Cross College, A.B.; Clark University, A.M...	Sept. 1916
Elizabeth H. Richards..	Master's Asst	Robinson Seminary, N. H.*	Jan. 1899
Anna A. O'Connell.....	3	Bridgewater Normal School; university and private courses*	Sept. 1900
Winifred L. Kinsley.....	7	Boston Normal School*....	†Sept. 1888
Edith M. Carman.....	7	Salem Normal School*.....	Dec. 1904
Alice E. May.....	6	Bridgewater Normal School	Oct. 1893
Mary H. Manning.....	6	Salem Normal School*.....	Sept. 1913
Mary E. Warren.....	5	Lawrence Academy, Groton; Hyannis Normal and North Adams Training Schools	Jan. 1902
Lucy Lamkin	5	Lowell Normal School.....	Apr. 1923

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† Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Morse School—Con. Anna F. Kelley.....	4	Framingham Normal School	Nov. 1918
Flora E. Parker.....	4	Salem Normal School.....	†Sept. 1921
Elizabeth J. Baldwin...	3	Boston Normal School*...	Jan. 1884
Christina R. Denyven..	3	Bridgewater Normal School; special courses	Jan. 1888
Agnes J. Moran.....	2	Salem Normal School*.....	Sept. 1909
Jane J. White.....	2	Fitchburg Normal School	Sept. 1920
Anna L. P. Collins.....	1	Attended Plymouth, N. H. Normal School.....	Sept. 1893
Eleanor M. O'Toole.....	1	Fitchburg Normal School	Nov. 1919
Ida J. Holmes.....	Special	Rhode Island Normal School; special courses	Sept. 1895
Parker School Mary A. Knowles.....	Principal	Billerica High School; special courses.....	Sept. 1897
Cordelia C. Row.....	3	Cambridge English High School; courses at Hyannis and Harvard.....	Dec. 1919
Marie M. Cloran.....	2	Salem Normal School.....	Sept. 1922
Agnes Marchant.....	1	Mt. Holyoke Seminary; Bridgewater Normal School; special courses	Oct. 1894
Helen E. Bradley.....	1	Bridgewater Normal School	Sept. 1920
Ellen G. Walsh.....	1	Salem Normal School.....	Sept. 1922
Peabody School Frederick B. Thompson	Master	Teachers' School of Science; Bridgewater Normal School.....	Nov. 1894
Frances F. Curtis.....	Master's Asst.	Bridgewater Normal School; special courses	Mar. 1898
Annie M. R. Sturtevant	8	Wellesley College, A.B.*...	Dec. 1907
Susan C. Allison.....	7	Cambridge High School; attended Boston Normal School*.....	Sept. 1889
Lucy M. Soulee.....	6-7	Everett High School; Boston University and private courses; Dartmouth Summer Courses	Sept. 1893
Bernice E. Bartlett.....	6	Emerson College of Oratory*	Sept. 1907
Tina M. King.....	6	Bridgewater Normal School*	Sept. 1908
Blanche C. Trefethen..	5	Normal Dept., Robinson Seminary*	‡Mar. 1895

* Attended the Wellington Training School. † Taught previous to this and resigned.
‡ Resigned for one year and was reappointed.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Peabody School — Con. Lena L. Ramhofer.....	4	Salem Normal School*....	Sept. 1912
Butella E. L. Conland....	4	Randolph, Vt., Normal School	Dec. 1898
Mary A. Burke.....	3	Salem Normal School*.....	Sept. 1885
Edith F. Pulsford.....	2	Kindergarten Training School*	Sept. 1910
Hazel Hunt.....	2	Worcester Normal School	Jan. 1924
Minnie H. Ketchum.....	1	Kindergarten Training School*	Sept. 1913
Evelyn Huling.....	1	Kindergarten Training School*	†Jan. 1924
Anna H. Welsh.....	Special Teacher	Attended Wellesley College, 2 years*.....	Sept. 1901
Putnam School John H. Graham	Master	Bridgewater Normal School; Boston University Extension Courses	June 1913
Maude M. Mixer.....	Master's Asst.	Teachers' School of Science; Bridgewater Normal School	Sept. 1905
Sarah M. Grieves	7	Cambridge Training School	Oct. 1882
Margaret E. O'Keefe....	5	Salem Normal School*.....	Sept. 1900
Martha Chisholm.....	5	Gloucester Training School; special courses	Sept. 1907
Edna F. Sullivan.....	5	Fitchburg Normal School	Sept. 1921
Mary A. Carmichael....	4	Salem Normal School.....	Feb. 1889
Annie A. Trelegan.....	4	Salem Normal School; special courses*.....	Dec. 1891
Mary A. Lincoln.....	3	Bridgewater Normal School; University Extension and private courses	Oct. 1912
Mary R. Collins.....	2	Lowell Normal School; special courses*.....	Sept. 1914
Annie A. Rea.....	1	Castine, Me., Normal School; special courses	Sept. 1909
Mary A. O'Toole.....	Special Class.	Lowell Normal School*....	‡Dec. 1912
Roberts School Martin F. O'Connor.....	Master	Boston College, A.B.; courses Harvard University, 3 years.....	Sept. 1914
Louise H. Griswold.....	Master's Asst.	Terryville High School; special courses.....	Sept. 1893
Caroline M. Williams	8	Cambridge Training School	Sept. 1880
Anna L. Mahoney.....	7	Worcester Normal School	Sept. 1922

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‡ Resigned for one year and was reappointed.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Roberts School—Con. Harriette E. Shepard....	7	Salem Normal School; special courses.....	Oct. 1890
Bessie W. C. Fuller.....	6	Vermont Academy, 2 years; Hyannis Normal School, 2 summers.....	Sept. 1909
Helen C. Stolba.....	6	Salem Normal School.....	Oct. 1921
Helen Moynihan.....	6	Framingham Normal School; State course for evening school teachers	Nov. 1920
Evelyn B. Kenney.....	5	Castine, Me., Normal School; course at Har- vard	Nov. 1886
Jeannette Connelly.....	5	Lowell Normal School.....	Apr. 1922
Anna E. Dailey.....	1	Salem Normal School*.....	Sept. 1910
Ida M. Cronin.....	4	Bridgewater Normal School.....	Dec. 1922
Margaret F. Ruddick..	4	Boston Normal School.....	Jan. 1924
Elizabeth H. Russell...	4	Lowell Normal School.....	Jan. 1924
Anna M. Vaughan.....	3	Lowell Normal School.....	Sept. 1920
Helen M. Long.....	Open Air Class	Salem Normal School*.....	Jan. 1915
Henriette E. de Roche- mont	Open Air Class	Portsmouth, N. H., Nor- mal School.....	Sept. 1894
Catherine M. Connell...	Special Class.	Lowell Normal School.....	Nov. 1918
Russell School Arthur C. Wadsworth..	Master	Harvard University, S.B.; Wooster University, Ohio, A. M., Ph. D.; Bridgewater Normal School.....	Sept. 1897
Mary S. Bingham.....	Master's Asst.	Salem Normal School; special work at Radcliffe	Sept. 1904
Sara S. Coyne.....	3	Salem Normal School*.....	Feb. 1912
Ida J. Mahoney.....	7	Framingham Normal School*.....	Apr. 1903
Margaret M. Carroll...	7	Salem Normal School*.....	Sept. 1911
Josephine F. Rowe.....	3	Salem Normal School*.....	Mar. 1909
Florence R. Casey.....	5	Lowell Normal School.....	Apr. 1922
Lillian A. Barry.....	5	Fitchburg Normal School..	Sept. 1922
Annie W. Cooper.....	4	Salem Normal School*.....	Sept. 1911
Alice V. Connelly.....	3	Salem Normal School*.....	Sept. 1908
Madeline Sharkey.....	3	Lowell Normal School.....	Apr. 1923
Evelyn F. Leddy.....	2	Salem Normal School.....	Dec. 1918
Edna Curtis.....	2	Lowell Normal School.....	Apr. 1922
Ruth Lusk.....	2	Lowell Normal School.....	Jan. 1924
Alice Ford Sullivan.....	1	Kindergarten Training School*.....	Jan. 1915
Carrie J. Allison.....	1	Cambridge High School; private school*.....	Sept. 1896

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Russell School—Con.			
Anne J. Wetmore.....	1	Salem Normal School.....	Sept. 1922
Michael Brennan.....	Special Teacher	Boston College, A. B., M. E.....	Jan. 1924
Shepard School			
Anna E. Welch.....	Principal.....	Salem Normal School*....	Sept. 1904
Alice M. Gage.....	5	High School; Mt. Holyoke College, 2 years.....	May 1900
Anna G. Scannell.....	4	Salem Normal School*.....	Sept. 1905
Agnes K. Geary.....	3	Salem Normal School*.....	Jan. 1909
Mary S. Redican.....	2-3	Kindergarten Training School	Sept. 1915
Catherine T. Murphy..	1-2	Salem Normal School*.....	Nov. 1915
Mary H. Brooks.....	1	Bridgewater Normal School.....	Sept. 1898
Nettie I. Haff.....	Special Class.	Salem Normal School*.....	Sept. 1906
Sleeper School			
Elizabeth G. Nelligan..	Principal	Cambridge English High School; attended Salem Normal School; summer and Harvard College Extension Courses; Simmons and Boston University*.....	Dec. 1899
Melissa M. Lloyd.....	5	Charlestown High School special courses	†Sept. 1893
Cora B. Poole.....	4	Salem Normal School*.....	Feb. 1906
Evelyn M. Dormer.....	3	Salem Normal School*.....	Dec. 1897
Katherine A. Mahoney	2-3	Salem Normal School*.....	Sept. 1913
Catherine M. Herlihy..	2	Salem Normal School*.....	Sept. 1913
Mary R. Harrington....	1	Salem Normal School*.....	Oct. 1910
Mary A. Brennan.....	1	Framingham Normal School	Dec. 1916
Tarbell School			
Carrie P. Pierce.....	Principal, 2.....	Gloucester High School; Salem Normal School, 1 year; special courses..	Oct. 1890
Irene A. McCarthy.....	3	Lowell Normal School.....	Sept. 1920
Myrtle I. Moore.....	2	Lowell Normal School.....	Oct. 1921
Agnes E. Rush.....	1	Lowell Normal School.....	Sept. 1922
Lillian M. Tynes.....	1	Salem Normal School*.....	Sept. 1913
Thorndike School			
Francis J. O'Hara.....	Master	Boston College, A. B. A. M.; Boston Normal School	Sept. 1912
Honora F. O'Brien.....	Master's Asst.	Gloucester High School; attended Boston Normal School	Sept. 1909

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† Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Thorndike School —Con.			
Mary E. Bousquet.....	7	Salem Normal School*.....	Sept. 1909
Teresa M. Sullivan.....	6	Lowell Normal School.....	Sept. 1920
Minnie A. Doran.....	6	Salem Normal School; special courses.....	Sept. 1895
Grace W. Fletcher.....	5	C a m b r i d g e Training School.....	Feb. 1874
Gertrude R. O'Hara....	5	Salem Normal School*.....	Oct. 1910
Florence A. Hickey.....	5	Salem Normal School*.....	Sept. 1912
Katherine M. Ahern.....	4	B r i d g e w a t e r Normal School	Sept. 1922
Isabelle A. Herlihy.....	4	Lowell Normal S c h o o l; special courses	Apr. 1922
Caroline B. Butler.....	4	Lowell Normal School.....	Nov. 1918
Louise J. Butcher.....	4	Lowell Normal School.....	Oct. 1920
Ethel McLaughlin	3	Lowell Normal School.....	Sept. 1920
Alice G. Nolan.....	3	Salem Normal School.....	Nov. 1918
Gertrude A. Murphy....	2	Salem Normal School; special courses*.....	Sept. 1912
Anna N. Sullivan.....	2	Boston Normal School*.....	Mar. 1901
Elizabeth B. Gahm.....	1	C l a m b r i d g e Training School; special courses	Sept. 1882
Alice W. Gaughan.....	1	Salem Normal School.....	Mar. 1911
Kathleen A. O'Brien..	1	Lowell Normal School.....	Jan. 1924
Luella M. Marsh.....	Open Air.....	C a m b r i d g e Training School	Feb. 1884
Margaret J. McCann....	Open Air.....	Lowell Normal School.....	Jan. 1920
Charlotte M. Cairnes...	Special Class..	Salem Normal School*.....	Nov. 1915
Webster School			
John D. Billings.....	Master	Bridgewater N o r m a l School; Boston Sloyd Training School; Tufts College, A. M. (Hon- orary)	Sept. 1872
Mary E. Ramsdell.....	Master's Asst.	Farmington, Me., Normal School	Apr. 1920
Martha N. Hanson.....	8	Attended New Hampshire Normal School.....	Mar. 1890
Josephine Hills.....	8	Framingham N o r m a l School	Sept. 1893
Lydia B. McKinnon.....	8	Salem Normal S c h o o l; Radcliffe College, 1 year	Dec. 1916
Neva L. Hanson.....	7	Attended Summer Normal School; courses at Lowell Institute.....	Feb. 1919
Mary T. Laffin.....	7	Gorham,, Me., N o r m a l School	Feb. 1916
Ellen C. Connell.....	7	Boston Normal School*....	Dec. 1918

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also other Courses	Date of Appointment
Webster School—Con. Mabel T. Ashley.....	7	Frammingham Normal School	Sept. 1896
Mary F. Fahey.....	6	Gorham, Me., Normal School	Nov. 1917
Agnes E. Corry.....	6	Lowell Normal School*....	Apr. 1914
Hilda Holman.....	6	Lowell Normal School; special courses at summer colleges.....	Sept. 1917
Abbie M. MacNiff.....	6	Fitchburg Normal School	Apr. 1916
Dora Leadbetter.....	5	Frammingham Normal School; Radcliffe College, 2 years.....	Sept. 1906
Magdalene M. Stumpf..	5	Frammingham Normal School	Dec. 1919
Minnie V. Reid.....	5	Boston Normal School*....	Sept. 1888
Frances I. Menkes.....	5	Salem Normal School.....	Nov. 1920
Louise Wingate.....	5	North Adams Normal School*	Sept. 1912
Harriet D. Cunningham	4	Salem Normal School*.....	Nov. 1918
Emma M. Goodwin.....	4	Farmington, Me., Normal School; special courses..	Feb. 1910
Ethel L. Stratton.....	4	Quincy Training School; special courses at B. U.	Sept. 1920
Gertrude I. Johnson.....	4	Worcester Normal School	Sept. 1901
Alice M. Groden.....	4	Bridgewater Normal School	Jan. 1924
Margaret J. Penney....	Special Teacher	Cambridge Training School; special courses..	Apr. 1882
John F. Toomey.....	Special Teacher	Boston College, A. B.....	Sept. 1923
Wellington School			
Harold B. Blazo.....	Master	Harvard University, A.B.	Sept. 1910
Mary I. Vinton.....	Supervisor	Salem Normal School; special courses.....	Mar. 1881
Carrie H. Stevens.....	Master's Asst.	Farmington, Me., Normal School; special courses..	Nov. 1894
Grace F. Chamberlain..	8	Frammingham Normal School	Apr. 1903
Ellen T. Fitzgerald.....	7	Bridgewater Normal School*	Sept. 1916
Mildred F. Reinhalter..	7	Bridgewater Normal School*	Apr. 1914
Grace M. Culhan.....	7	Radcliffe College, A. B.; Cambridge Commercial College	Sept. 1922

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Wellington School—Con.			
Albert Brooks	7	Keene, N. H., Normal School	Sept. 1923
Marie Brandon	6	Bridgewater Normal School	Sept. 1920
Marion I. Wood.....	6	Salem Normal School*.....	Sept. 1916
Anna M. Hillery.....	6	Lowell Normal School	Jan. 1924
Anna M. Fitzgerald.....	5	Salem Normal School*.....	Sept. 1916
Mary J. Murphy.....	5	Salem Normal School*.....	Sept. 1916
Mary L. Balfe.....	5	Framingham Normal School	Sept. 1920
Florence M. Feely.....	4	Radcliffe College, A.B.*....	Nov. 1915
Mary E. Sullivan.....	4	Salem Normal School*.....	Feb. 1920
M. Gertrude Shea.....	4	Framingham Normal School	Sept. 1920
Anna A. Moran.....	4	Lowell Normal School.....	Sept. 1921
Esther M. Hanley.....	3	Salem Normal School.....	Nov. 1918
Catherine H. Shaughnessey	3	Lowell Normal School.....	Sept. 1920
Mary Kalunian	3	Salem Normal School*.....	Sept. 1916
Anna M. Harrington.....	2	Salem Normal School*.....	Sept. 1916
Ruth F. Igo.....	2	Salem Normal School*.....	Sept. 1916
Edna B. Cairnes.....	2	Salem Normal School.....	Sept. 1922
Anna Guiney	2	Lowell Normal School.....	Jan. 1924
Mary A. Laffey.....	1	Salem Normal School*.....	Nov. 1917
Margaret Jacobs	1	Lowell Normal School*.....	Sept. 1916
Evelyn Phettiplace	1	Lowell Normal School.....	Apr. 1922
Margaret L. Shaughnessey.	1	Lowell Normal School.....	Jan. 1924
Addie H. Tuttle.....	Ungraded Class	Salem Normal School*.....	†Apr. 1922
Margaret F. Walsh.....	Ungraded Class	Prince of Wales Normal School; Prince of Wales College	Jan. 1924
M. Agnes Tierney.....	Special Class.....	Framingham Normal School	Nov. 1918
Willard School			
Katharine E. Hayes.....	Principal	Framingham Normal School	Sept. 1902
Gertrude T. Sullivan.....	3	Salem Normal School.....	Dec. 1902
Gertrude B. Maguire.....	3	Salem Normal School.....	Nov. 1918
Mildred E. Murray.....	3	Lowell Normal School*.....	Apr. 1918
Mary A. O'Callaghan.....	3	Cambridge English High School; attended Salem Normal School	Sept. 1913
Lucy F. Cline.....	2	Kindergarten Training School*	Oct. 1910
Elizabeth M. Crowley.....	2	Salem Normal School*.....	Dec. 1901
M. Louise Kane.....	2	Kindergarten Training School	Sept. 1914

*Attended the Wellington Training School. †Taught previous to this and resigned.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Willard School—Con. Agalina Aldrich.....	2	Cushing Academy; Wellesley College, 2 years	Sept. 1901
Caroline A. Sullivan.....	1	Kindergarten Training School*	Nov. 1912
Alice G. Lynch.....	1	Lowell Normal School.....	Nov. 1918
Mary R. O'Keefe.....	1	Salem Normal School.....	Nov. 1918
M. Olive McQuillan.....	1	Lowell Normal School.....	Jan. 1920
Helen R. Morris.....	1	Lowell Normal School.....	Jan. 1923
Wyman Open Air Sch. Agnes J. McElroy.....	Principal	Salem Normal School*.....	Dec. 1891
Winifred B. Goodwillie	Teacher	Salem Normal School; summer courses*	Mar. 1906
Catherine E. Myler.....	Teacher	Lowell Normal School.....	Sept. 1921
Marguerite M. Mahoney	Teacher	Lowell Normal School.....	Nov. 1918
Continuation Schools James Dugan.....	Director	Amherst, A.B.....	Jan. 1910
(Boys' School) E. Joseph Goulart.....	Principal	Hyannis Normal School special courses at Har- vard College and Boston University	Sept. 1920
George F. Barry.....	Printing, Academic	Bridgewater Normal School	Sept. 1920
Thomas F. Woods.....	Printing, Shop	High School, Teachers' Training Course	Sept. 1920
Arthur L. MacRea.....	Woodwork, Shop	Attended Newton High School; special courses..	Sept. 1920
(Girls' School) Mary A. Boland.....	Principal	Salem Normal School; university extension and private courses*	Jan. 1898
Elizabeth F. Butler.....	Cooking, Academic	Lowell Normal School*.....	Sept. 1916
Mildred M. Ready.....	Cooking, Shop	Attended Simmons Col- lege; special courses.....	Sept. 1920
Stella May Davis.....	Sewing, Academic	Plymouth, N. H., Normal School	May 1917
Ellen P. Tracy.....	Sewing, Shop.	Roxbury High School; special courses in house- hold arts	Sept. 1920

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
<i>Kindergartens</i>			
<i>Agassiz</i>			
Florence Rice.....	Kindergartner	Kindergarten Training School; Radcliffe College, 2 years.....	Sept. 1899
Mabel O. Phelps.....	Assistant Kindergartner	Kindergarten Training School	Dec. 1920
<i>Boardman</i>			
Annie L. Crane.....	Kindergartner	Kindergarten Training School	Dec. 1904
Charlotte P. Callanan..	Assistant Kindergartner	Kindergarten Training School	Sept. 1922
<i>Gannett</i>			
Carrie E. Shepherd†.....	Kindergartner	Kindergarten Training School; special courses..	Sept. 1897
Jane S. Feeny.....	Assistant Kindergartner	Kindergarten Training School	Feb. 1916
Katherine R. Good.....	Assistant Kindergartner	Kindergarten Training School	Sept. 1922
<i>Gore</i>			
Lillian A. McCarthy....	Kindergartner	Kindergarten Training School*	Sept. 1913
Julia P. Good.....	Assistant Kindergartner	Kindergarten Training School	Sept. 1922
<i>Haggerty</i>			
Helen F. Dogherty.....	Kindergartner	Kindergarten Training School; special courses*	Sept. 1911
Frances E. Fitzgerald..	Assistant Kindergartner	Kindergarten Training School	Nov. 1915
<i>Houghton</i>			
Marion L. Akerman....	Kindergartner	Kindergarten Training School	Apr. 1900
Hester B. Pratt.....	Assistant Kindergartner	Kindergarten Training School	Apr. 1922
<i>Lowell</i>			
Melinda Gates.....	Kindergartner	Kindergarten Training School; Berlitz School....	Sept. 1889
Dorothy J. Butler.....	Assistant Kindergartner	Kindergarten Training School	Sept. 1922
<i>Merrill</i>			
Caroline A. Leighton....	Kindergartner	Kindergarten Training School; special courses..	Sept. 1896

* Attended the Wellington Training School.

† On leave of absence.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Kindergartens—Con. Dora E. Clextan.....	Assistant Kindergartner	Kindergarten Training School; special courses..	Apr. 1920
<i>Morse</i> Mary S. Dempsey.....	Kindergartner	Kindergarten Training School*	Sept. 1912
<i>Parker</i> Anna D. Francis.....	Kindergartner	Kindergarten Training School*	Jan. 1906
<i>Peabody</i> Irene L. Phelps.....	Kindergartner	Kindergarten Training School*	Apr. 1904
Ruth D. Cobb.....	Assistant Kindergartner	Kindergarten Training Schools; Simmons College, 2 years; Emerson College, 2 years.....	Sept. 1916
<i>Shaw</i> Mary F. Leland.....	Kindergartner	Kindergarten Training School*; special courses	Mar. 1896
Madeline Mullins	Assistant Kindergartner	Kindergarten Training School	Apr. 1922
<i>Shepard</i> Clara A. Hall.....	Kindergartner	Kindergarten Training school; special courses*	May 1892
<i>Sleeper</i> Mabel S. Adams.....	Kindergartner	Kindergarten Training School	Oct. 1893
Mary C. Tracy.....	Assistant Kindergartner	Kindergarten Training School	Oct. 1919
<i>Thorndike</i> Gertrude L. Bunton.....	Kindergartner	Kindergarten Training School*	Oct. 1910
Julia M. Sullivan.....	Assistant Kindergartner	Kindergarten Training School	Apr. 1919
<i>Webster</i> Jennie S. Clough.....	Kindergartner	Kindergarten Training School	Sept. 1897
Mariam P. Nelson.....	Assistant Kindergartner	Kindergarten Training School	Apr. 1922
<i>Wellington</i> Gertrude M. Gove.....	Kindergartner	Kindergarten Training School	May 1893

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Kindergarten—Con. Edith A. McCarthy.....	Assistant Kindergartner	Kindergarten Training School	Sept. 1920
Willard Mary A. McMahon.....	Kindergartner	Kindergarten Training School	Oct. 1911
Beatrice Kelley	Assistant Kindergartner	Kindergarten Training School	Sept. 1913
Special Subjects Practical Art Alfred F. Burke.....	Director	Massachusetts Normal Art School	Sept. 1920
Harriet M. Simpson.....	Assistant	Massachusetts Normal Art School	Sept. 1921
Music John B. Whoriskey.....	Director	Special courses in vocal and instrumental music.	Feb. 1911
Mary F. Ahern.....	Assistant	Attended New England Conservatory of Music; Boston University, Supervisor's Certificate	May 1919
Josephine C. Wyman....	Assistant	Farmington, Me., Normal School	Apr. 1903
Physical Education and Athletic Activities Joseph J. Smith.....	Director	Posse Normal School; Cornell Summer School; special courses	Sept. 1921
Mildred Grant	Assistant	Sargent School of Physical Education	Sept. 1919
Humphrey E. O'Leary..	Assistant	Clark's Business School; special courses on physical education at Harvard Summer School.....	Dec. 1922
Americanization R. M. O'Toole Rondeau	Director	Fitchburg Normal School; post-graduate course, 2 years	Sept. 1921
Rebecca C. Feeny*.....	Teacher	Salem Normal School.....	Sept. 1919
Manual Training and Pre-Vocational Classes Catharine L. Dolan.....	Ellis	Salem Normal School.....	Nov. 1898

* Assigned to the factory class at the American Rubber Company.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Special Subjects—Con. Edward F. McAuliffe.....	Ellis	Rindge Technical School; Sloyd Training School, 1 year	Nov. 1919
Robert V. Meyer.....	Peabody	Common Schools (Stevens Trade School)	Sept. 1921
Nellie A. Kerrigan.....	Putnam	Salem Normal School*.....	Oct. 1904
Walter P. Worden.....	Putnam	Attended Laconia, N. H., High School; practical experience	Apr. 1924
Mary E. Quirk.....	Roberts	Salem Normal School.....	Feb. 1910
Murray K. Worden.....	Roberts	Common Schools	Sept. 1921
Gertrude B. Duffy.....	Webster	Salem Normal School; special courses at Har- vard and Simmons; Sloyd Training School*..	Apr. 1902
Nora P. Nason.....	Webster	Gorham, Me., Normal School; special courses...	Dec. 1906
John E. Howard.....	Webster	Sloyd Training School; Law School	Sept. 1911
J. Louis Doyle.....	Wellington ...	Massachusetts Normal Art School	Sept. 1922
Cooking Mary R. Breau.....	Teacher	Framingham Normal School	Jan. 1924
Classes for Stammerers Sallie A. Brooks.....	Teacher	Kindergarten Training School; special courses at Emerson College of Oratory and at Boston University*	Sept. 1913
Special Class at the Agassiz Museum Margaret Tucker	Teacher	Vassar College; special courses	Sept. 1919
Ruth D. Crawford.....	Teacher	Lowell Normal School.....	Dec. 1918
Vision Class Julia M. Horgan.....	Teacher	Salem Normal School*.....	Sept. 1908
Eva G. Oakes.....	Teacher	Warren High School; Martha's Vineyard Summer School, 5 years; special courses at Co- lumbia and B. U.....	Sept. 1908
Lip Reading Classes Marion S. Clark.....	Teacher	Boston University, * A.B.; Harvard College, M.E.; Miller-Walle Training School for Teachers of Lip Reading	June 1923

* Attended the Wellington Training School.

Tabular View—Continued

Schools and Teachers	Grade	Where Graduated, Highest Institution; also Other Courses	Date of Appointment
Special Subjects—Con. Opportunity Class			
Maude A. Deehan.....	Teacher	Portland, Me., Normal School; special courses..	Dec. 1893
Sewing			
Agnes Gordon	Director	Boston Normal School.....	Feb. 1890
Anna C. Coleman.....	Teacher	Private School for Girls, Worcester; business experience	Sept. 1913
Maude E. Delorme.....	Teacher	Private tutor, special courses	Oct. 1910
Julia A. O'Loughlin.....	Teacher	McDowell School of Design, Women's Institute of Art and Science.....	Sept. 1922
Mary J. Smith.....	Teacher	Course at Columbia University	Nov. 1912
Nettie L. White.....	Teacher	Special courses	Sept. 1915
Minnie F. Wilson.....	Teacher	Salem Normal School.....	May 1900

Tabular View—Concluded

Superintendent of Schools.....	Michael E. Fitzgerald
Assistant Superintendent	} James Dugan
Director of Continuation Schools.....	
Supervisor of Primary Schools.....	Katharine L. McElroy
Supervisor of Kindergartens.....	Alice V. McIntire
Business Agent	Constantine J. Church
Secretary to School Committee.....	Helen R. Brosnahan
Secretary to Superintendent.....	Marie E. Walsh
Clerks	Gerald T. Liston
	Katharine A. Duffy
	Frances Dwyer
	Ruth C. Hare
	Ellen B. Wait
Porter	John H. Lemon
Attendance Officers	William J. Cogan
	Dennis F. Hurley
	John T. Keane
	Jeremiah F. McDermott
	James H. Shuckrowe
	John J. Sullivan
	Edward J. Walsh

TEACHERS AND OFFICIALS PENSIONED BY THE CITY

Agent.....	Sanford B. Hubbard
Teachers, High School.....	Emma A. Scudder
Elementary School.....	Ella R. Avery
Elementary School.....	Mary P. Clair
Elementary School.....	Ellen A. Cheney
Elementary School.....	Josephine M. Doherty
Elementary School.....	Mary A. Driscoll
Elementary School.....	Georgianna P. Dutcher
Elementary School.....	M. Elizabeth Evans
Elementary School.....	Charlotte A. Ewell
Elementary School.....	Sarah J. Gunnison
Elementary School.....	Eliza Hussey
Elementary School.....	Nellie A. Hutchins
Elementary School.....	Annie B. Josselyn
Elementary School.....	Evelyn J. Locke
Elementary School.....	Eliza S. Paddock
Elementary School.....	Emily R. Pitkin
Elementary School.....	Lydia A. Whitcher

TEACHERS AND OFFICIALS PENSIONED FROM THE STATE RETIREMENT FUND

Assistant Director, Art Education.....	Lucia N. Jennison
High School.....	Martha R. Smith
Elementary School.....	Frances Allen
Elementary School.....	Sara A. Bailey
Elementary School.....	Herbert H. Bates
Elementary School.....	Anna F. Bellows
Elementary School.....	Selma E. Berthold
Elementary School.....	Ada A. Billings
Elementary School.....	Mary M. Brigham
Elementary School.....	Mabel E. Blake
Elementary School.....	Fannie P. Browning
Elementary School.....	Charlotte M. Chase
Elementary School.....	Emma A. Faulkner
Elementary School.....	Genevieve S. Flint
Elementary School.....	Ella F. Gulliver
Elementary School.....	Frances E. Higgins
Elementary School.....	Ellen J. Hunt
Elementary School.....	Flora C. Ingraham
Elementary School.....	W. Mortimer MacVicar
Elementary School.....	Eusebia A. Minard
Elementary School.....	Louise C. Patterson
Elementary School.....	Alice C. Phinney
Elementary School.....	Ellen J. Plympton
Elementary School.....	Harriette E. Ryan
Elementary School.....	Carrie H. Smith
Elementary School.....	Hattie A. Thayer
Elementary School.....	Elizabeth A. Tower
Elementary School.....	Mary E. Towle
Elementary School.....	Harriett Townsend
Elementary School.....	Mary A. Townsend
Elementary School.....	Eliza D. Watson
Elementary School.....	Laura S. Westcott
Elementary School.....	Grace R. Woodward
Elementary School.....	Susan C. Wyeth

SALARY SCHEDULE

Cambridge High and Latin and Rindge Technical Schools

	Minimum	Increase per Year	Number of Years	Maximum
Head Master	\$3,960	\$180	3	\$4,500
Masters	2,780	120	6	3,500
Masters, Heads of Departments.....	3,416	120	4	3,896
Heads of Departments (men).....	2,112	120	7	2,952
Heads of Departments (women).....	1,824	96	6	2,400
Teachers (men)	1,716	120	7	2,556
Teachers (women)	1,428	96	6	2,004
Permanent Substitute (men).....	1,536	—	—	—
Permanent Substitute women.....	1,248	—	—	—
Deans*	—	—	—	—

Elementary Schools

Masters	\$2,780	\$120	6	\$3,500
Masters' Assistants	1,740	84	2	1,908
Principals, 9 rooms or more.....	1,936	120	3	2,296
Principals, 8 rooms or less.....	1,884	84	2	2,052
Teachers of eighth grade.....	1,284	84	6	1,788
Teachers	1,200	84	6	1,704

Kindergartens

Teachers	\$1,176	84	6	\$1,680
Assistant Teachers	1,140	84	5	1,560

Music and Art

Director	\$2,780	\$120	6	\$3,500
Assistants	1,776	148	3	2,220

Sewing

Director	\$1,248	\$84	6	\$1,752
Teachers	1,188	84	6	1,692

* Deans are paid \$300 in addition to their regular salary.

Salary Schedule—Concluded

Physical Education

	Minimum	Increase per Year	Number of Years	Maximum
Director	\$2,780	\$120	6	\$3,500
Assistants (men)	2,112	120	7	2,952
Assistants (women)	1,824	96	6	2,400
Teachers	1,284	84	6	1,788

Cooking

Teachers	\$1,200	\$84	6	\$1,704
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Prevocational

Teachers, Academic	\$1,396	\$84	6	\$1,900
Teachers (women), Industrial.....	1,396	84	6	1,900
Teachers (men), Industrial.....	1,550	120	5	2,150

Special Classes

Principal (Open Air).....	\$1,924	\$84	2	\$2,092
Teachers	1,344	84	6	1,848

Attendance Officers

Each	\$1,400	\$100	6	\$2,000
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NOTE—Teachers entering the service of the Cambridge Public Schools for the first time, with outside experience, shall be given credit on the salary schedule by the following rule:

Three years of experience outside of the city will be considered as equivalent to one year of experience in the city, but in no case shall a teacher be credited with more than five years of experience.

EVENING SCHOOLS

Evening High School

	Per evening
<i>Masters:</i> Minimum.....	\$6 00
Maximum.....	7 00
<i>Teachers:</i> Minimum.....	3 00
To teachers during the first year of service in evening schools.	
Maximum.....	4 00
To teachers of five or more years' experience in day schools; to teachers of less than five years' experience in day schools after one year of service in evening schools, and to teachers without day school experience after two years of service in evening schools.	
<i>Secretary</i>	3 00
<i>Clerk</i>	2 00

Rindge Evening Industrial School

<i>Master:</i> Minimum.....	6 00
Maximum.....	7 00
<i>Teachers:</i> Minimum.....	3 50
Maximum.....	4 50
<i>Secretary</i>	3 00

Elementary Schools

<i>Principals</i>	5 00
<i>Teachers:</i> Minimum	2 50
To teachers during the first year of service in evening schools.	
Maximum.....	3 00
To teachers of five or more years' experience in day schools; to teachers of less than five years' experience in day schools after one year of service in evening schools, and to teachers without day school experience after two years of service in evening schools.	
<i>Clerks</i>	2 00

Evening Trade School

<i>Principal:</i> Minimum.....	5 00
Maximum.....	6 00
<i>Teachers:</i> Minimum.....	3 00
Maximum.....	4 00
<i>Secretary</i>	3 00

ORGANIZATION OF HEALTH DEPARTMENT

BOARD OF HEALTH

JOSEPH M. WADDEN, M.D., Chairman

PROF. ELIE H. LA PIERRE

EDMUND J. BRANDON, ESQ.

Medical Inspector

SIMON B. KELLEHER, M.D.

Agent and Clerk of the Board

JOHN D. CROWLEY

Social Worker

*RENA ESTABROOK

C. ISABEL TORNEY

Office

GERTRUDE M. MANNING

MARGARET G. FITZGERALD

GERTRUDE R. MULLONEY

Bacteriologist

WALTER C. FEELEY, M.D.

Inspector of Milk and Vinegar

WILLIAM A. NOONAN, M.D.

Insector of Provisions

JOSEPH L. JOHNSON

Inspector of Slaughtering

DAVID L. BOLGER, D.V.S.

Housing and Plumbing Inspector

AUGUSTIN M. JOHNSON

Collector of Samples

THOMAS J. COLLINS

Sanitary Inspectors

FRANCIS H. NUGENT

MICHAEL T. WALSH

PATRICK J. MURPHY

THOMAS F. PHELAN

EUGENE P. CALLAHAN

Fumigator

DENNIS SULLIVAN

Ambulance Driver

FRANCIS W. POWERS

School Physicians

WILLIAM H. CLANCY, M.D.

SAMUEL E. CHALFEN, M.D.

WILLIAM E. FLEET, M.D.

JOSEPH M. WADDEN, M.D.

CHARLES M. HUTCHINSON, M.D.

JOHN P. NELLIGAN, M.D.

JOHN F. FAIR, M.D.

EUGENE A. McCARTHY, M.D.

FRANCIS J. BARNES, M.D.

†WILLIAM H. BURKE, M.D.

JOHN J. MURPHY, M.D.

ARTHUR MOLL, M.D.

SUMNER C. ANDREWS, M.D.

(High Schools and Work Certificate)

*Resigned

†Deceased

BOARD OF HEALTH

School Nurses

MARY C. CHURCH, Chief	
MARGARET N. H. McGRATH	*M. ETTA TIERNEY-WAITE
MARY A. KENNY, R.N.	ELIZABETH HAYDEN, R.N.
BEATRICE E. DOHERTY-HAYDEN, R.N.	MARY G. WELCH, R.N.
MINNIE K. MURPHY, R.N.	MARY T. LOUGHLIN, R.N.
MARGARET T. DINAN, R.N.	FLORENCE M. PARTRIDGE, R.N.

Dental Clinic

(1491 Cambridge Street)

EMILY M. LUCK, D.M.D.	WALTER J. CRONIN, D.M.D.
MATTHEW F. SHEA, D.M.D.	WILLIAM H. MORAN, D.M.D.
ALICE WALSH, Assistant	

Tuberculosis Dispensary

(1491 Cambridge Street)

PATRICK J. FLEMING, M.D., Physician	
MARY L. THACHER, R.N.	} Nurses
HELEN C. CUMMINGS, R.N.	

Infant Welfare Nurses

BRIDGET A. HEANUE, R.N.	MARY A. MacDONALD, R.N.
JENNIE T. MALONE, R.N.	AGNES C. TOOLE, R.N.

Contagious Disease Nurses

ANNA B. DRISCOLL, R.N.	ANNA E. MAGUIRE, R.N.
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Tuberculosis Hospital

(799 Concord Avenue)

SIMON B. KELLEHER, M.D., Supt.
FELIX F. McGIRR, M.D., Physician
*MINNIE A. SIMPSON, R.N., Matron
*ANNIE E. McMAHON
MARGARET H. CONLON, R.N., Matron

REPORT OF THE BOARD OF HEALTH

January 31, 1924.

To the Honorable, the City Council of the City of Cambridge, Mass.:

The Board of Health herewith submits its Annual Report for the year ending December 31, 1923. This is the 47th Annual Report of the Board of Health.

The organization and personnel of the Department is shown on the preceding pages. The tables, statistics, and divisional reports, distributed throughout the report, show in detail the work and results in the respective divisions.

In February it organized for the year and re-elected Dr. Joseph M. Wadden as its Chairman for the year. During the year the Board held fifty-nine meetings, at eleven of which public hearings were given.

In July, Edmund J. Brandon was appointed and confirmed as a Member of the Board to complete the unexpired term of Jeremiah S. Sullivan, who served most faithfully and efficiently as a Member of the Board since March, 1909. The City of Cambridge is greatly indebted to Mr. Sullivan for his services and wise counsel during these years.

The General Death Rate for 1923 is 13.69 per 1,000 population, while the Death Rate of Cambridge residents only is 13.28. Both these rates are slightly higher than 1922, due principally to the increased number of deaths from Cancer and Pneumonia. The number of deaths from Tuberculosis, Diarrhea and Enteritis, Whooping Cough, and Bronchitis are the lowest in the history of our city. Deaths from Pulmonary Tuberculosis have decreased from the rate of 225 per 100,000 living (Cambridge residents) in 1900 to 71 in 1923. A better idea of the progress being made can be gained when one realizes that in 1851 the Tuberculosis death rate was 440 per 100,000. Deaths from Diarrhea and Enteritis of children under two years of age have decreased from 66 in 1914 to 19 in 1923. Maternal Mortality has been reduced to 3.64 per 1,000 (all) births in 1923.

The Death Rate from Diphtheria has decreased from .52 per 1,000 population in 1890 to .161 in 1923. We regret to report that the number of stillbirths has increased from 102 (3.2%) in 1914 to 136 (3.8%) in 1923. Of the 1662 deaths, 136 were still-born. Of the 1526 deaths (figures used in computing Death Rate) there were 213 under one year of age; of the 213, 26 or 12.2% were non-residents. Of the 1526 deaths, 283 or 18.5% were non-residents. The average Death Rate for the State of Massachusetts was 13.2. The Death Rate of Cambridge in 1900 was 16.87. In 1923 it was 13.28.

In Infant Mortality our city holds a most enviable record. Our rate for 1923 was 62.5 per 1,000 live births. We had the third best rate of cities our size in the country. The average rate for the United States Registration Area was 78. The average rate for cities of Massachusetts was 78 also. It is worthy of note that the rate in Cambridge in 1880 was 136; in 1900 it was 123; in 1920 it was 81.7; and in 1923 it was 62.5.

The Board desires to call your attention especially to Tables G and H, which have been added to our Annual Report. Table G gives a summary, by Wards, of the communicable diseases reported. It also shows the population, area, and density of the population (number of persons per acre) in each Ward. Table H gives a summary, by Wards, and by months, of the deaths in the city. It also shows the number of non-resident deaths in our city.

The Board regrets to report that Dr. William H. Burke, School Physician for St. Peter's Parochial School since 1906, died in September. Dr. Burke was one of the pioneer school physicians who laid the foundation for our splendid system of medical inspection of school children, and it is now used by most of the large cities throughout the country. M. Etta Tierney-Waite resigned as an Assistant School Nurse in May, 1923, and was succeeded by Mary T. Loughlin, R. N. In April, Minnie A. Simpson, R. N., Matron at the Tuberculosis Hospital since March, 1912, resigned, and was succeeded temporarily by Anne E. McMahon, R. N., who was relieved in November by Margaret H. Conlon, R. N., the present Matron.

The Board is pleased to report that as a result of an appropriation providing for same, an additional school nurse

was added to the staff of Public Health Nurses. Florence M. Partridge, R. N., a Veteran of the World War, was appointed.

It is hoped that in the near future arrangement can be made to have a Dental Clinic in each school district, preferably in one of the school houses, as recommended in our Report of 1922. At present the children have to be conducted by the nurses to the Dental Clinic in the Out-Patient Department Building of the Cambridge City Hospital, or to the Clinics in Boston.

Modern public health work prescribes that preventive and educational measures occupy a prominent place in all Health Department activities. In the next decade we shall see carried out a program of education of the people in reference to public health work. There will be a realization by all of its vital importance, and a very definite change in the incidence and in the death rate from many, now common diseases, is predicted. This health education work will be brought about primarily, in fact, is already begun, as a result of the work of the numerous private agencies engaged in public health work. A functional co-ordination of Health Departments with these agencies, and a mutual understanding of the aims of both, is an important factor in modern health work. The public is realizing the fact that "public health is purchasable, and within natural limitations any community can determine its own death rate."

During the year special emphasis has been placed upon the work of Schick Testing and Diphtheria Immunization, and a special report of the work done is included in the divisional reports.

The revision of the Rules and Regulations of the Board of Health was completed, and became effective April 1st.

The Board wishes you to know it is mindful of the fact that there should be no unnecessary expenditures, and it has retrenched so far as practicable, but in doing so, much necessary work has had to be overlooked. It is again emphasized that something should be done toward repairing and painting the interior of the Tuberculosis Hospital.

The Board most respectfully recommends that the necessary action be taken to provide proper sanitary convenience stations at suitable locations throughout the city. This need cannot be over emphasized.

The Board of Health wishes to take advantage of this opportunity to officially express its appreciation of the assistance and encouragement given this Department during the year by the citizens as a whole, and particularly by the Mayor and City Council. The physicians of the city, who, after all, are "our first line of defense," have rendered service that should not be forgotten. The excellent work of the unofficial local health agencies has been noted, and their apparently earnest desire to be of help meets with our sincere approval. It is appreciated that only through such co-operation and co-ordination can the Cambridge standard be maintained.

One of the most important phases of health administration, aside from the actual prevention of the spread of communicable diseases, is the problem of bringing about the recognition of abnormal physical conditions in individuals at the earliest possible time, and to this end, and that the public health may receive proper protection, all persons are advised to consult the family physician often, even if apparently well. An annual physical survey by one's physician is a step in the right direction. The results of such individual efforts toward health conservation will result in the elimination of many illnesses and deaths. To quote our distinguished citizen and educator, Charles W. Eliot, "To promote health in the individual, the family, and the community, should be the constant aim of every good citizen in the American Democracy."

Respectfully submitted,

JOSEPH M. WADDEN, M. D., Chairman,

ELIE H. LaPIERRE,

EDMUND J. BRANDON, Esq.,

Board of Health.

EXPENDITURES

EXPENDED FOR SALARIES

January 1—December 31, 1923

Medical Inspector	\$2,625 00	
Clerk	2,148 57	
Social Worker	1,265 00	
Stenographers	1,846 00	
Office Clerk	962 00	
Inspector of Provisions	2,467 50	
Sanitary Inspectors	7,841 25	
Plumber and Housing Inspector.....	2,068 62	
Drivers	2,967 14	
School Nurses	13,135 94	
School Physicians	4,706 35	
Infant Welfare Nurses.....	5,368 35	
Contagious Nurses	2,874 74	
Bacteriologist	1,200 00	
Culture Collector	300 00	
Inspector of Slaughtering.....	1,045 00	
Dispensary Physician	600 00	
Dispensary Nurses	2,907 93	
		<hr/>
		\$56,329 39

EXPENDED FOR GENERAL EXPENSES

January 1—December 31, 1923

Board and Care:

Diphtheria	\$4,466 50	
Scarlet fever	16,308 50	
Tuberculosis	1,931 39	
Measles	67 50	
Anterior poliomyelitis	65 00	
Suppurative conjunctivitis	43 50	
Ophthalmia neonatorum	118 50	
Dog-bite (anti rabie)	300 00	
		<hr/>
		\$23,300 89

Reimbursement of other cities and towns and of the Commonwealth:

Diphtheria	\$674 61	
Scarlet fever	1,580 49	
Measles	66 00	
Whooping cough	131 00	
Cat bite	25 50	
		<hr/>
		2,477 60

\$25,778 49

Printing and binding	\$519 67	
Postage	442 61	
Advertising and posting (Regulations).....	320 16	
Transportation of persons	2,241 21	
Rent (garage and postoffice box).....	347 04	
Communication (telephone)	80 39	
Motor vehicle repairs and care.....	280 10	
Care of persons in hospitals (see detail above)....	25,778 49	
Removal of dead animals	2 75	
Fees, services of venires, etc.....	20 00	
Miscellaneous	6 13	

Office supplies	\$929 31	
Ice (laboratory)	124 95	
Laboratory supplies	317 83	
Motor vehicles supplies.....	478 46	
Chemicals (disinfectants)	137 69	
General supplies	57 01	
School Inspection supplies	150 36	
Infant Welfare supplies	478 52	
		<hr/>
		\$32,712 68

EXPENDED FOR TUBERCULOSIS HOSPITAL

January 1—December 31, 1923

Salaries:

Physician	\$1,399 97	
Interne	598 00	
Matron	940 00	
Supervisor of Nurses	452 50	
Nurses	5,394 92	
Cook	928 29	
Assistant cooks	1,027 22	
Dishwashers	1,120 00	
Laundresses	1,008 61	
Maids	773 00	
Scrubwomen	872 00	
Engineer	1,969 29	
Firemen	5,225 28	
Caretaker	509 00	
Assistant caretaker	534 00	
		<hr/>
		\$22,752 08
Printing and binding	\$20 58	
Postage	32 88	
Cartage and freight.....	16 41	
Light and power.....	116 60	
Communications	120 51	
Medical	8 00	
General plant	484 38	
Office	38 22	
Food and ice.....	18,010 78	
Fuel	7,455 84	
Medical, surgical, laboratory.....	1,123 73	
Laundry, cleaning, toilet.....	309 94	
Agricultural	12 74	
Chemicals and disinfectants.....	13 00	
General plant	982 49	
Engine and fire room.....	691 58	
Bedding	413 96	
		<hr/>
		\$29,851 64

EXPENDED FOR INSPECTION OF MILK AND VINEGAR

January 1—December 31, 1923

Salaries:

Inspector	\$1,200 00	
Collector of samples	1,769 44	
		<hr/>
		\$2,969 44
Postage	\$31 16	
Transportation of persons	15 00	
Rent, taxes and water.....	107 80	

BOARD OF HEALTH

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Motor vehicle repairs and care.....	\$71 10	
Fees	12 00	
Medical, surgical, laboratory.....	140 94	
Office	93 55	
Laundry, cleaning, toilet.....	8 23	
Motor vehicle	289 55	
		<hr/>
		\$769 33
		<hr/>
		\$3,738 77

EXPENDED FOR SCHOOL DENTIST

January 1—December 31, 1923

Salaries:		
School dentists	\$4,699 96	
Assistant	780 00	
		<hr/>
		\$5,479 96
Office supplies	\$30 74	
Medical, surgical, laboratory.....	288 94	
		<hr/>
		319 68
		<hr/>
		\$5,799 64

EXPENDED FOR SCHICK TEST WORK

January 1—December 31, 1923

Salaries:		
Physician	\$1,125 00	
		<hr/>
		\$1,125 00
Advertising and posting.....	\$253 48	
Office supplies	45 47	
Medical, surgical, laboratory.....	136 44	
		<hr/>
		435 39
		<hr/>
		\$1,560 39

BOARD OF HEALTH RECEIPTS

January 1—December 31, 1923

Contagious Diseases (including all but Tuberculosis)

State	\$2,541 00	
Cities and towns	1,780 00	
Individuals	1,699 50	
		<hr/>
		\$6,020 50

Tuberculosis

State	\$5,678 00	
Cities and towns	7,667 50	
U. S. Veterans' Bureau	1,601 00	
Individuals	1,944 50	
Subsidy	6,589 66	
		<hr/>
		23,570 60
		<hr/>
		\$29,591 16

VITAL STATISTICS

DEATH RATE PER 1,000 LIVING FROM ALL CAUSES
POPULATION 111,444 JULY 1, 1923

1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
13.42	13.39	13.94	14.52	17.99	13.14	15.06	12.48	13.17	13.69
14.04	14.12	14.59	14.63	20.55	12.24	14.26	11.94	12.82	13.28

The upper row gives the death rate for all deaths in Cambridge; that is, it includes the non-residents that died in the city, but excludes Cambridge residents who died outside the city. The lower row of rates includes Cambridge residents who died outside of the city, and excludes non-residents who died in Cambridge.

The figures given for the population are taken from the Federal Census of July 1, 1923. The mean annual death rate for ten years, 1914 to 1923, inclusive, is 14.08. This includes non-residents who died in the city. The mean annual death rate, excluding non-residents, but including Cambridge residents who died outside the city, is 14.24.

Table A gives causes of death by ages, in accordance with the International Classification of Causes of Deaths, of those persons who died in Cambridge, and includes non-residents.

Table B gives number of cases reported, the morbidity per 1,000 living, death rate per 1,000 living, including residents who died outside the city, and death rate per 100 cases reported of diphtheria, scarlet fever, and typhoid fever for the years 1914 to 1923, inclusive. If death rate per 1,000 living, computed from deaths in the city only, varies from that given in the table, the fact is stated in footnote.

Table C gives the death rates per 1,000 living for cancer, diarrheal diseases, whooping cough, bronchitis, pneumonia, and tuberculosis for the years 1914 to 1923, inclusive. In this table the upper part is that derived from the number of deaths of Cambridge residents who died within or without the city. Non-residents dying in Cambridge are excluded. The lower number is derived from the actual number of deaths in the city and includes non-residents but excludes Cambridge residents who died outside of Cambridge.

Table D gives the Morbidity Reports by Weeks.

Table E gives the Morbidity Reports by Month and by Ward.

Table F gives Morbidity Distribution by Disease, Sex, and Age groups.

Table G gives Morbidity, Population, and Area, by Ward for entire Year.

Table H gives Mortality (all causes) by Month and by Ward.

S. B. KELLEHER, M. D.,
Medical Inspector.

TABLE A—(Continued)

TABLE A--(Continued)

TABLE A—(Continued)

[illegible]

TABLE A—(Continued)

CAUSES OF DEATH	Under 1		1 to 2		2 to 3		3 to 4		4 to 5		Total Under 5		5 to 10		10 to 15		15 to 20		20 to 30		30 to 40		40 to 50		50 to 60		60 to 70		70 to 80		80 to 90		Over 90		Total Over 5		Total				
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
XIII. Violence (Continued)																																									
163. Other Suicides.....																																								1	
164. Poisoning by Food.....																																								1	
165. Other Acute Poisonings.....																																								1	
166. Conflagration.....																																								1	
167. Burns and Scalds (Conf'n excepted).....																																								2	
168. Absorption of Deleterious Gases (Conf'n excepted).....																																								2	
169. Accidental Drowning.....																																								13	
170. Traumatism of Fire Arms.....																																								3	
171. Traumatism by Cutting Instruments.....																																								6	
172. Traumatism by Fall.....																																								1	
173. Traumatism in Mines and Quarries.....																																								19	
174. Traumatism by Machines.....																																								2	
175. Traumatism by Other Crushing, (Vehicles, Landslides, Etc.).....																																								33	
176. Injuries by Animals.....																																									
177. Starvation.....																																									
178. Excessive Cold.....																																									
179. Effects of Heat.....																																									
180. Lightning.....																																									
181. Electricity (except Lightning).....																																									
182. Homicide by Firearms.....																																									
183. Homicide by Cutting Instruments.....																																									
184. Homicide by Other Means.....																																									
185. Fractures, cause not specified.....																																									
186. Other External Violence.....																																									
XIV. Ill-Defined Diseases																																									
187. Ill-defined Organic Disease.....																																									
188. Sudden Death.....																																									
189. Non-specified or Ill-defined Causes of Death.....																																									
190. Stillborn.....																																									
TOTALS.....	112	101	15	11	8	4	11	2	3	5	149	123	14	19	10	6	10	9	40	45	46	46	72	69	112	104	133	131	108	131	37	86	13	6	598	656			1662		

Total Camb. deaths outside City..... 237 Non-residents died in Cambridge..... 283

TABLE B

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
Diphtheria										
Number of cases reported.....	233	358	375	487	399	249	220	227	206	257
Morbidity per 1,000 living.....	2.15	3.28	3.42	4.42	3.58	2.22	1.90	2.0	1.85	2.30
Death rate per 1,000 living.....	0.18	0.35	0.31	0.31	0.26	0.124	.0727	.172	.135	.161
Case death rate, percentage.....	8.58	10.61	8.80	6.98	7.268	5.62	8.63	8.37	7.28	4.28
Scarlet Fever										
Number of cases reported.....	322	379	172	163	60	189	278	258	285	508
Morbidity per 1,000 living.....	3.07	3.48	1.57	1.47	0.53	1.69	2.53	2.33	2.56	4.56
Death rate per 1,000 living.....	0.05	1.83	0.82	0.07	0.009	0.017	.072	.001	.003	.004
Case death rate, percentage.....	1.51	5.28	5.24	4.92	1.69	1.06	2.87	.751	1.40	.984
Measles										
Number of cases reported.....	703	871	454	1294	1413	191	910	908	1491	1158
Morbidity per 1,000 living.....	6.50	7.99	6.38	11.69	12.68	1.69	8.27	8.22	13.43	10.39
Death rate per 1,000 living.....	0.13	0.05	0.06	0.14	0.28	0.017	.111	.045	.0901	.602
Case death rate, percentage.....	1.99	0.57	1.54	1.24	2.19	1.05	1.42	.505	.670	.577
Typhoid Fever										
Number of cases reported.....	51	35	26	33	23	14	17	12	16	15
Morbidity per 1,000 living.....	0.47	0.32	0.24	.298	0.206	0.124	.154	.108	.144	.134
Death rate per 1,000 living.....	0.03	0.03	.018	0.05	0.026	0.026	.027	.009	.009	.003
Case death rate, percentage.....	5.88	8.57	7.69	15.15	13.043	21.42	17.65	8.33	6.25	*26.6

The death rate, per 1,000, for those dying in Cambridge in 1923 was, for diphtheria, .099; scarlet fever, .002.

*Four deaths, three of whom were non-residents.

TABLE C

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
Cancer	0.97 1.04	1.09 1.13	.985 1.12	1.16 1.38	1.13 1.256	.918 1.29	1.29 1.71	1.32 1.54	1.29 1.48	1.30 1.52
Diarrheal Diseases	0.94 0.79	0.72 0.62	.794 .701	.713 .605	.753 .655	.445 .347	.627 .591	.353 .335	.360 .315	.107 .107
Whooping Cough	0.09 0.09	0.12 0.12	.146 .118	.063 .063	.314 .296	.115 .115	.227 .209	.135 .099	.054 .054	.016 .014
Bronchitis	0.33 0.32	0.32 0.32	.191 .191	.172 .172	.493 .493	.142 .152	.163 .163	.126 .135	.054 .054	.006 .006
Pneumonia	1.83 1.66	1.61 1.42	1.66 1.63	1.57 1.45	1.489 1.337	1.20 1.27	1.89 1.87	1.01 1.02	1.82 1.73	1.80 1.75
Pulmonary Tuberculosis	1.25 1.67	1.38 1.84	1.43 1.74	1.35 1.90	1.247 1.982	1.06 1.57	.918 1.18	.806 1.08	.812 1.09	.708 1.01

In this table the upper number is that derived from the number of deaths of Cambridge residents who died within or without the city. Non-residents dying in Cambridge are excluded.

The lower number is derived from the actual number of deaths in the city and includes non-residents, but excludes Cambridge residents who died outside of Cambridge.

TABLE D—(Continued)

	Diphtheria	Scarlet Fever	Measles	Chicken Pox	Whooping Cough	German Measles	Mumps	Typhoid Fever	Pulmonary Tuberculosis	Other Forms Tuberculosis	Lobar Pneumonia	Cerebro Spinal Meningitis	Ophthalmia Neonatorum	Suppurative Conjunctivitis	Septic Sore Throat	Influenza	Tetanus	Trachoma	Malaria	Anterior Poliomylitis	Encephalitis Lethargica	Hook Worm	Trichinosis	Dog Bite	Totals	
Week ending:																										
July 7..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	35	
14..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	43	
21..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	43	
28..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
August 4..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
11..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
18..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
25..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
September 1..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
8..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
15..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
22..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
29..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
October 6..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
13..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
20..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
27..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
November 3..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
10..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
17..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
24..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
December 1..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
8..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
15..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
22..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
29..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
31..	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	40	
Totals.....	257	508	1158	587	1050	27	423	15	171	20	197	3	21	20	8	84	2	4	2	2	1	1	1	1	12	4585

TABLE E

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
DIPHTHERIA													
1	1	3	1	2	1	2	0	1	0	2	2	1	16
2	5	1	1	1	2	0	3	4	1	3	1	3	25
3	0	1	4	3	5	3	4	1	2	1	6	2	32
4	2	4	3	10	2	0	0	3	1	4	1	2	32
5	2	1	2	1	3	1	0	0	1	3	2	1	17
6	3	3	3	0	3	0	1	4	3	1	7	4	32
7	2	1	5	1	1	0	0	4	5	5	4	5	33
8	1	0	0	3	1	1	1	1	1	1	4	5	19
9	4	0	2	4	1	0	1	1	3	1	5	4	26
10	0	0	0	1	0	1	3	0	0	1	0	1	7
11	4	4	2	3	0	0	0	0	0	4	0	1	18
Total	24	18	23	29	19	8	13	19	17	26	32	29	257
SCARLET FEVER													
1	6	3	3	1	2	3	1	0	2	1	2	0	24
2	2	4	5	6	7	0	2	0	1	4	0	1	32
3	5	1	6	2	7	6	3	1	0	4	4	9	48
4	2	4	0	5	14	11	4	0	0	6	2	10	58
5	2	2	1	3	7	3	0	0	2	1	1	15	37
6	3	3	6	7	19	13	1	3	1	3	3	28	90
7	12	4	18	10	15	4	1	1	2	5	7	17	86
8	8	1	9	3	3	4	0	0	2	0	5	9	44
9	0	5	2	1	5	2	1	0	0	0	1	14	31
10	4	0	2	5	3	3	1	0	0	2	7	2	29
11	3	2	2	1	1	4	2	1	2	3	2	6	29
Total	37	29	54	44	83	53	16	6	12	29	34	111	508
MEASLES													
1	19	7	6	1	2	1	0	0	0	0	0	0	36
2	20	13	10	9	1	2	2	0	0	0	0	0	57
3	16	20	14	3	6	4	2	0	0	0	1	1	67
4	13	18	20	35	23	0	0	4	0	1	1	6	121
5	7	16	28	34	20	1	0	0	0	0	0	1	107
6	23	25	85	62	35	9	0	0	0	0	2	6	247
7	40	23	47	32	28	8	0	0	1	0	3	2	184
8	13	26	10	8	6	2	0	0	0	0	1	1	67
9	7	9	5	59	80	45	6	3	0	0	0	3	217
10	1	2	6	12	3	1	0	0	0	0	1	0	26
11	1	10	3	3	6	2	1	0	3	0	0	0	29
Total	160	169	234	258	210	75	11	7	4	1	9	20	1158
CHICKEN POX													
1	4	2	1	0	13	0	0	0	0	0	2	7	29
2	3	2	0	0	3	1	0	1	0	0	1	5	16
3	7	1	10	4	8	8	2	0	0	2	3	1	46
4	6	5	3	1	9	12	7	0	0	4	10	11	68
5	7	5	3	3	1	6	3	0	0	1	2	4	35
6	10	1	8	4	4	11	9	0	1	6	29	38	121
7	3	7	7	10	2	4	1	1	2	2	11	17	67
8	2	2	2	5	12	8	0	0	1	1	2	14	49
9	18	13	7	15	9	7	1	0	0	0	1	7	78
10	0	3	0	2	0	0	1	0	0	1	0	5	12
11	3	8	6	1	10	10	4	0	0	3	9	12	66
Total	63	49	47	45	71	67	28	2	4	20	70	121	587

TABLE E—(Continued)

Ward		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
WHOOPING COUGH	1	32	19	3	2	1	2	0	0	0	1	3	0	53
	2	13	14	7	6	2	1	0	2	0	0	4	0	49
	3	25	21	35	9	5	3	1	0	1	3	0	0	103
	4	25	8	5	14	2	6	4	0	8	1	1	2	76
	5	27	6	7	3	0	0	10	0	0	4	0	0	57
	6	27	27	38	21	2	1	0	1	0	4	0	2	123
	7	27	33	36	20	19	8	3	0	0	6	4	0	156
	8	14	16	19	9	9	13	1	2	0	0	0	1	84
	9	19	45	72	40	9	4	0	0	2	3	0	0	194
	10	6	15	20	4	8	6	1	0	1	0	0	2	63
	11	10	14	17	24	14	4	2	0	3	3	0	1	92
	Total	225	208	259	152	71	48	22	5	15	25	12	8	1050
GERMAN MEASLES	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	1	0	0	0	0	0	0	0	0	2
	6	1	1	0	2	1	2	0	0	0	0	0	0	7
	7	0	0	0	0	1	0	0	0	0	1	0	4	6
	8	0	0	0	0	0	0	0	0	0	0	0	1	1
	9	0	0	0	2	2	1	1	1	0	0	0	0	7
	10	0	0	0	0	2	2	0	0	0	0	0	0	4
	11	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	1	1	0	5	6	6	1	1	0	1	0	5	27
MUMPS	1	2	0	0	0	1	4	0	0	0	2	8	13	30
	2	0	0	0	2	3	4	1	0	1	2	6	7	26
	3	0	2	2	0	2	1	2	0	1	2	2	8	22
	4	2	2	6	0	0	7	1	1	1	1	1	1	23
	5	1	3	6	3	3	1	3	0	0	0	0	0	20
	6	3	2	1	0	3	0	0	0	0	0	0	0	9
	7	2	2	1	4	6	8	14	1	0	0	1	0	39
	8	1	3	3	2	0	0	1	0	1	1	2	0	14
	9	20	25	30	12	5	6	2	1	2	2	0	2	107
	10	20	17	31	2	12	4	2	1	0	0	1	0	90
	11	17	8	4	0	2	5	2	2	0	0	0	3	43
	Total	68	64	84	25	37	40	28	6	6	10	21	34	423
SCARLET FEVER	1	0	0	0	1	0	0	0	0	0	0	0	0	1
	2	0	0	0	1	0	0	0	0	0	0	0	0	1
	3	0	0	0	0	0	0	0	0	0	0	0	1	1
	4	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	1	0	0	0	0	0	0	0	0	2	1	4
	6	0	0	0	0	0	1	0	0	0	0	0	0	1
	7	0	0	0	0	0	0	0	0	1	0	0	0	1
	8	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	1	0	0	0	1
	10	0	0	0	0	0	1	0	0	0	1	0	0	3
	11	0	1	0	0	0	0	0	1	0	0	0	0	2
	Total	0	2	0	2	0	2	0	1	2	1	3	2	15

TABLE E—(Continued)

[illegible]

TABLE E—(Continued)

Ward		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
OPHTHALMIA NEONATORUM	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	1	0	0	0	1	1	0	3
	3	0	0	0	0	0	0	1	0	0	0	0	0	1
	4	0	0	1	0	0	0	0	1	1	1	0	0	4
	5	0	0	1	0	0	0	0	0	0	0	0	0	1
	6	1	0	1	0	1	0	1	0	1	1	0	1	7
	7	0	0	0	1	0	0	0	0	0	0	0	0	1
	8	0	0	0	0	0	0	0	1	0	0	0	0	1
	9	0	1	1	0	1	0	0	0	0	1	1	0	3
	10	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0	0
Total		1	1	4	1	2	1	2	2	2	3	1	1	21
SUPPURATIVE CONJUNCTIVITIS	1	1	1	0	0	0	0	0	0	0	0	0	0	1
	2	0	1	0	0	0	0	0	0	0	0	0	0	1
	3	1	1	0	0	1	0	0	0	0	0	0	0	3
	4	0	0	0	0	0	0	0	0	0	0	0	0	1
	5	1	0	0	0	0	0	1	0	0	0	0	0	1
	6	0	0	2	0	0	1	0	0	0	0	0	0	3
	7	0	1	0	0	0	0	0	0	1	1	0	0	3
	8	0	1	0	0	0	0	0	1	0	1	0	0	3
	9	0	0	0	1	0	0	0	0	0	0	0	0	1
	10	0	0	0	0	0	0	0	0	0	1	0	0	1
	11	0	1	0	0	0	0	0	0	0	1	0	0	2
Total		3	5	2	1	1	1	1	1	1	4	0	0	20
SEPTIC SORE THROAT	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	1	1
	5	0	0	0	0	0	0	0	1	0	0	0	0	1
	6	0	0	0	0	2	0	0	0	0	0	0	0	2
	7	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	1	0	0	0	0	0	0	0	0	0	0	1
	9	1	0	0	0	0	0	0	0	0	0	0	0	1
	10	0	0	0	1	1	0	0	0	0	0	0	0	1
	11	0	1	0	0	0	0	0	0	0	0	0	0	1
Total		2	1	0	1	2	0	0	1	0	0	0	1	8
INFLUENZA	1	1	2	0	0	0	0	0	0	0	0	0	0	3
	2	1	0	2	1	0	0	0	0	0	0	0	0	4
	3	6	4	1	0	0	0	0	0	0	0	0	1	12
	4	2	3	2	0	0	0	0	0	0	0	0	0	7
	5	8	3	0	0	0	0	0	0	0	0	0	1	12
	6	6	5	4	0	0	1	0	0	0	0	0	1	17
	7	0	2	0	0	0	0	0	0	0	0	0	1	3
	8	5	3	0	0	0	1	0	0	0	0	0	1	10
	9	1	1	1	1	0	0	0	0	0	0	0	0	4
	10	2	2	0	1	0	0	0	0	0	0	1	1	7
	11	0	5	0	0	0	0	0	0	0	0	0	0	5
Total		32	30	10	3	0	2	0	0	0	0	1	6	84

TABLE E—(Continued)

Ward	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
TETANUS	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	1	0	0	0	0	0	1
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	1	0	0	1
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1	0	0	2
ENCEPHALITIS LETHARGICA	1	0	1	1	0	0	0	0	0	0	0	0	2
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	1	0	0	0	0	0	0	0	0	1
	5	0	0	0	0	0	1	0	0	0	0	0	1
	6	0	0	1	1	0	0	1	0	0	0	0	3
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	1	0	0	0	1
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	1	0	0	0	0	1
	11	0	1	0	0	0	0	0	0	1	0	0	2
Total	0	2	3	1	0	0	1	2	1	1	0	0	11
MALARIA	1	0	0	0	1	0	0	0	0	0	0	0	1
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	1	0	0	0	1
	6	0	0	0	0	0	0	0	0	0	0	0	0
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	1	0	0	0	2
DOG-BITE	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0
	5	0	0	0	0	0	0	0	0	0	0	0	0
	6	0	0	0	0	3	0	0	0	0	0	0	3
	7	0	0	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	1	0	0	0	0	0	0	0	1
	9	0	0	0	0	0	0	7	0	0	0	0	7
	10	1	0	0	0	0	0	0	0	0	0	0	1
	11	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	3	0	7	0	0	0	0	0	12

TABLE F

MORBIDITY DISTRIBUTION		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Total
Diphtheria	M	2	10	18	13	7	32	5	4	6	1	1	0	0	0	0	0	99
	F	2	12	15	24	16	45	18	4	13	6	1	2	0	0	0	0	158
	P	4	22	33	37	23	77	23	8	19	7	2	2	0	0	0	0	257
Scarlet Fever	M	0	2	11	14	25	89	58	14	14	2	1	0	0	0	0	0	230
	F	1	2	11	18	18	113	70	15	22	4	4	0	0	0	0	0	278
	P	1	4	22	32	43	202	128	29	36	6	5	0	0	0	0	0	508
Pulmonary Tuberculosis	M	0	1	0	0	1	2	2	3	44	19	11	4	6	3	0	0	96
	F	1	0	0	0	0	4	9	7	23	13	12	2	4	0	0	0	75
	P	1	1	0	0	1	6	11	10	67	32	23	6	10	3	0	0	171
Other Forms Tuberculosis	M	0	0	0	0	0	1	1	2	2	1	1	0	0	0	0	0	8
	F	1	1	0	0	0	0	3	2	3	1	1	0	0	0	0	0	12
	P	1	1	0	0	0	1	4	4	5	2	2	0	0	0	0	0	20
Chicken Pox	M	14	18	18	19	24	167	18	6	7	1	0	0	0	0	0	0	292
	F	8	17	20	27	27	168	21	1	3	3	0	0	0	0	0	0	295
	P	22	35	38	46	51	335	39	7	10	4	0	0	0	0	0	0	587
Measles	M	32	43	71	59	80	263	15	5	20	5	0	0	0	0	0	0	593
	F	21	41	51	73	78	251	17	10	15	8	0	0	0	0	0	0	567
	P	53	84	122	132	158	514	32	15	35	13	0	0	0	0	0	0	1158
Whooping Cough	M	40	58	57	69	52	205	12	1	1	1	1	0	1	0	0	0	498
	F	49	47	58	60	63	251	16	2	2	4	0	0	0	0	0	0	552
	P	89	105	115	129	115	456	28	3	3	5	1	0	1	0	0	0	1050
Mumps	M	1	5	5	9	12	87	48	15	22	7	1	0	0	0	0	0	212
	F	0	3	5	12	13	96	37	15	14	12	3	0	0	1	0	0	211
	P	1	8	10	21	25	183	85	30	36	19	4	0	0	1	0	0	423
Lobar Pneumonia	M	3	8	2	0	2	9	3	5	22	11	17	14	10	5	3	0	114
	F	4	5	1	1	5	6	4	2	11	9	12	11	3	7	2	0	83
	P	7	13	3	1	7	15	7	7	33	20	29	25	13	12	5	0	197
Influenza	M	0	1	1	0	0	2	0	5	6	3	6	2	0	2	0	0	29
	F	3	1	1	1	0	2	4	2	9	15	5	6	5	2	0	0	50
	P	3	2	2	1	0	4	4	7	15	18	11	8	5	4	0	0	84
German Measles	M	3	0	0	0	0	7	1	2	0	0	0	0	0	0	0	0	13
	F	2	1	1	2	0	5	0	1	1	0	0	0	0	1	0	0	14
	P	5	1	1	2	0	12	1	3	1	0	0	0	0	1	0	0	27

TABLE F—(Continued)

MORBIDITY DISTRIBUTION		Under 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 10	10 to 15	15 to 20	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	Over 90	Total
Encephalitis Lethargica	M	0	0	1	0	0	1	0	0	1	0	1	2	0	0	0	0	6
	F	0	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	5
	P	0	0	1	0	0	1	2	0	4	0	1	2	0	0	0	0	11
Ophthalmia Neonatorum	M	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
	F	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
	P	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Typhoid Fever	M	0	0	0	0	0	1	0	1	2	1	1	1	0	0	0	0	7
	F	0	0	0	1	0	1	2	1	1	1	1	0	0	0	0	0	8
	P	0	0	0	1	0	2	2	2	3	2	2	1	0	0	0	0	15
Suppurative Conjunctivitis	M	6	1	0	0	0	0	1	0	3	0	0	0	0	0	0	0	11
	F	6	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	9
	P	12	1	0	0	0	3	1	0	3	0	0	0	0	0	0	0	20
Septic Sore Throat	M	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
	F	0	0	0	0	1	0	1	0	2	0	0	2	0	0	0	0	6
	P	0	0	0	0	1	1	1	0	3	0	0	2	0	0	0	0	8
Anterior Poliomyelitis	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3
	P	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	3
Cerebro Spinal Meningitis	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3
	P	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3
Trachoma	M	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	3
	F	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
	P	0	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	4
Tetanus	M	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	F	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
	P	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Hookworm	M	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Dog Bite	M	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	0	6
	F	1	0	0	0	0	1	0	0	0	1	0	2	1	0	0	0	6
	P	1	0	0	0	0	2	1	1	0	4	0	2	1	0	0	0	12
Trichinosis	M	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	F	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
	P	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Malaria	M	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2
	F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	P	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	2

TABLE G.
(DISEASES BY WARDS FOR YEAR) ALSO DENSITY OF POPULATION

	Ward											Total
	1	2	3	4	5	6	7	8	9	10	11	
Population	5,903	5,980	10,229	9,936	10,567	13,337	12,687	9,783	12,998	8,969	1,155	111,444
Area (acres)	237.39	113.82	110.81	234.26	171.90	438.71	218.55	347.62	1150.17	599.04	558.53	4180.80
Density	24	51	91	42	60	30	57	28	11	15	17	(6.53 sq. in.) 27
Diphtheria	16	25	32	32	17	32	33	19	26	7	18	257
Scarlet Fever	24	32	48	58	37	90	86	44	31	29	29	508
Septic Sore Throat	0	0	0	1	1	2	0	1	1	1	1	8
Mumps	30	26	22	23	20	9	39	14	107	90	43	423
German Measles	0	0	0	0	2	7	6	1	7	4	0	27
Measles	36	57	67	121	107	247	184	67	217	26	29	1158
Typhoid Fever	1	1	1	0	4	1	1	0	1	3	2	15
Chicken-Pox	29	16	46	68	35	121	67	49	78	12	66	587
Whooping Cough	53	49	103	76	57	123	156	84	194	63	92	1050
Anterior Poliomyelitis	0	0	0	0	0	0	0	0	0	2	1	3
Cerebro Spinal Meningitis	0	1	1	0	0	0	0	0	1	0	0	3
Suppurative Conjunctivitis	1	1	3	1	1	5	3	1	1	1	2	20
Ophthalmic Neonatorum	0	3	1	4	1	7	1	1	3	0	0	21
Tuberculosis, Pulmonary	16	6	10	19	24	22	15	19	14	9	17	171
Tuberculosis, Other Forms	1	2	0	1	4	1	5	1	0	0	5	20
Lobar Pneumonia	11	15	21	18	24	25	21	15	23	10	14	197
Influenza	3	4	12	7	12	17	3	10	4	7	5	84
Tetanus	0	0	1	0	1	0	0	0	0	0	0	2
Malaria	1	0	0	0	1	0	0	0	0	0	0	2
Trachoma	2	0	1	0	0	1	0	0	0	0	0	4
Trichinosis	0	0	0	0	0	0	0	0	1	0	0	1
Hookworm	0	0	0	0	0	0	1	0	0	0	0	1
Encephalitis Lethargica	2	0	0	1	1	3	0	1	0	1	2	11
Dog-Bite (rabid)	0	0	0	0	0	3	0	1	7	1	0	12
Totals	226	238	369	430	349	716	621	328	716	266	326	4585

BOARD OF HEALTH

TABLE H.
(DEATHS BY MONTH AND WARD)
Including Stillbirths

	WARD											Non.	Total
	1	2	3	4	5	6	7	8	9	10	11		
Population	(See Table G)											Res.	
January	6	11	9	13	17	24	15	6	18	7	8	36	170
February	6	13	18	17	10	20	13	8	12	12	16	16	161
March	7	15	17	14	13	21	12	10	11	13	12	29	174
April	2	16	11	11	9	22	9	13	20	8	17	29	167
May	5	6	12	10	14	7	6	13	15	8	12	29	137
June	3	7	14	10	6	18	9	12	5	7	5	23	119
July	6	12	10	14	6	15	9	1	9	6	5	25	118
August	6	7	4	8	9	16	6	3	7	5	10	23	104
September	1	4	12	7	5	12	9	12	8	5	9	27	111
October	3	6	5	6	10	12	10	10	8	10	5	31	116
November	6	13	9	10	12	12	11	12	10	11	14	23	143
December	6	5	6	19	11	9	10	17	7	12	13	34	142
Total	57	115	127	139	122	188	119	110	130	104	126	325	1662

DISEASES DANGEROUS TO THE PUBLIC HEALTH

DIPHTHERIA

In April the Mayor and City Council voted a special appropriation to engage a part-time physician to carry on the Schick Work in the schools. A campaign was soon started in the schools, and playgrounds during the summer, with the result that over three thousand school children were tested. Those who reacted positive to the test were given three doses of the toxin-antitoxin serum. After six months the child was then re-tested to determine whether or not he was immune to diphtheria.

As this work took most of the summer and fall its influence did not affect the morbidity or mortality rates, but I look forward to a drop in the mortality rate, at least for 1924.

SCARLET FEVER

There were almost twice the number of cases reported for 1923 than there were reported in 1922, yet there was no marked increase in the death rate, as can be seen in Table B.

The scarlet fever seen during the year was a very mild type. Many border line cases were seen.

A great many of the cases were first seen in the schools, in the stage of desquamation, by the school physician.

TYPHOID FEVER

Fifteen cases of typhoid fever were reported during the year, one less than last year.

The case of death rate percentage of 26.6 needs a word of explanation. There were four deaths from typhoid in the city, but only one of these four was a Cambridge resident. The other three were non-residents who were brought into Cambridge Hospitals.

DIARRHEAL DISEASES

In the past ten years there has been a constant decline in the mortality rate. This year we have the lowest rate in the City's history.

I believe that the work being done in the six Infant Welfare Clinics has a marked influence on this rate.

PULMONARY TUBERCULOSIS

It is pleasing to note the steady decline each year in the mortality rate of this disease. This year the rate is the lowest that it has ever been. There were 113 deaths for 1923 as compared with 121 deaths for 1922. Of the 113 deaths this year, 29 were non-residents. Two Cambridge residents died outside of the city.

S. B. KELLEHER, M. D.,
Medical Inspector

BACTERIOLOGICAL LABORATORY

I respectfully submit the following report of my work as Bacteriologist for the year of 1923. As in former years, examinations are made each morning and the results immediately transmitted to the physicians or institutions submitting the specimens.

DIPHTHERIA

	Positive		Negative		No Growth.....	Totals.....
	Diagnosis..	Release.....	Diagnosis..	Release.....		
January	4	4	133	27	0	168
February	7	2	88	28	1	126
March	11	0	95	27	1	134
April	10	0	77	28	1	116
May	9	4	90	32	1	136
June	6	1	57	18	1	83
July	5	1	25	16	1	48
August	9	5	33	24	2	73
September	10	2	38	20	3	73
October	18	2	57	36	4	117
November	20	0	75	26	4	125
December	11	8	120	47	3	189
Totals	120	29	888	329	22	1,388

	Tuberculosis			Typhoid			Other Examinations..	Totals.....
	Positive....	Negative...	Total.....	Positive	Negative	Total		
January	13	41	54	0	3	3	3	60
February	8	57	65	2	8	10	3	78
March	15	55	70	0	0	0	2	72
April	21	48	69	2	6	8	3	80
May	16	45	61	1	5	6	3	70
June	15	30	45	1	3	4	3	52
July	25	31	56	0	7	7	5	68
August	11	32	43	3	8	11	4	58
September	14	37	51	1	10	11	4	66
October	14	35	49	0	9	9	5	63
November	18	36	54	1	9	10	1	65
December	8	39	47	0	4	4	4	55
Totals	178	486	664	11	72	83	40	787

The total number of examinations for the year was 2,175.

WALTER C. FEELEY, M. D., Bacteriologist.

REPORT OF CAMBRIDGE TUBERCULOSIS HOSPITAL FOR YEAR 1923

I respectfully submit the following report of the work done at the Cambridge Tuberculosis Hospital during the year 1923.

On January 1, 1923, there remained in the Hospital from the previous year 47 cases. During the present year we admitted 103 cases, and re-admitted 31 cases, making a total of 181 cases treated during the year.

RESIDENTS

Of the 47 patients remaining from the previous year, 31 were patients of 1922; 30 of 1921; 40 of 1920; 1 of 1918; 40 of 1917; 3 of 1916; 10 of 1913; 10 of 1910.

1910. A case of Chronic Phthisis that is still resident.

1913. A case of Chronic Phthisis that is still resident.

1916. Four cases of advanced phthisis, three still resident, one left improved.

1917. Three cases of advanced phthisis; still resident.

1918. One advanced case.

1920. Four cases of advanced phthisis; all still resident.

1921. Two cases of advanced phthisis, and one T. B. hip; all still resident.

1922. Thirty remain from 1922. Thirteen died. One incipient. One moderately advanced. Twenty-nine far advanced. One incipient improved, discharged, sent to Rutland. The moderately advanced case improved and discharged. Of the twenty-nine advanced cases, thirteen died. One was transferred to Tewksbury. Seven left against advice. Four discharged, improved. Four are still resident.

RE-ADMISSIONS

Thirty-one cases were re-admitted this year, as against twenty-two cases of last year. One was a patient of 1909; one of 1910; 2 of 1914; 3 of 1916; 2 of 1917; 3 of 1918; 2 of 1919; 5 of 1920; 10 of 1921; 4 of 1922; 7 of 1923.

Incipient. Two patients were discharged in 1923 improved. The other one still resident.

Advanced. Twenty-nine re-admissions this year all advanced. Three died. One transferred to Tewksbury. One to Lakeville. One to Westfield. Four were discharged with conditions improved. Six left against advice, not improved. Thirteen cases are still resident.

Summary. Three died. Five discharged improved. Six left against advice, not improved. One to Tewksbury. One to Westfield. One to Lakeville. Fourteen cases are still resident. Total 31.

NEW CASES

During the year we admitted 103 new cases, as against 97 of last year.

Stages. Three patients were admitted as incipient; six moderately advanced; eighty-nine advanced. The History of one patient was not obtainable as patient died within a short time. Two patients left the same day and were not examined. One was a glandular type. One was T. B. kidney and bowels; the lungs were negative.

Sex. Sixty males and forty-three females were admitted as against forty-nine males and forty-eight females in the year of 1922.

Age	0-2	2-5	5-10	10-20	20-30	30-40	40-50	50-60	60-70
Cases	2	0	1	10	43	22	17	6	2

The highest per cent was between twenty and thirty.

Social Status. Married, 58; Single, 41; Widowed, 3; Divorced, 1.

Nativity. Forty-four were foreign; fifty-nine born in United States; forty-two in Massachusetts; fourteen Cambridge.

Nationality. The majority were Americans.

59 American	2 Swedish	1 Albanian
11 Canadian	2 Greek	1 Russian
7 Irish	2 Lithuanian	1 Syrian
5 British	1 Austrian	1 Armenian
4 Italian	1 Norwegian	
4 Portuguese	1 Polish	

OCCUPATION

25 Housewives	1 Farm hand	1 Maid
6 Laborers	1 Fisherman	2 Iron workers
4 Chauffeurs	1 Telephone operator	1 Carpenter
1 Student	1 Barber	1 Boiler maker
4 Machinists	2 Babies	1 Valet
4 Rubber workers	1 Cashier	1 Waitress
3 Weavers	1 Wood turner	1 Floorwalker
3 Box makers	1 Housekeeper	1 Varnisher
3 Stone masons	1 Baker	1 Traffic manager
2 Domestic	1 Floor layer	1 Packer
2 Dressmakers	1 Soldier	1 Soap mixer
2 Teamsters	1 Brass moulder	1 Reporter
2 Clerks	1 Laundress	8 School children
3 Salesmen	1 Brickmaker	1 without history
2 Shoemakers	1 Auto mechanic	

Source. Twenty-two cases gave a history of one or more cases in immediate family. Six gave a history of contact in some way or other. The remaining seventy-five cases, no source of contagion could be established.

AVERAGE, HIGHEST AND LOWEST NUMBER OF PATIENTS
EACH MONTH

	Aver.	High	Low		Aver.	High	Low
January	44	48	45	July	46	48	44
February	47	50	42	August	42	44	40
March	49	55	42	September	40	44	37
April	53	55	49	October	41	45	38
May	46	54	44	November	41	44	39
June	45	47	42	December	41	42	40

CLINICAL FORMS

Chronic Pulmonary Tuberculosis.....	96
Acute Pneumonic Phthisis.....	4
Two cases without history.....	2
T. B. Kidney	1

COMPLICATIONS

Hemorrhages. Fifty-one had one or more hemorrhages, before entering or while in hospital. Three deaths occurred from Hemorrhages.

Enteritis. Four cases had Tubercular Enteritis as a complication.

Meningitis. Three cases had Meningitis, occurring in the disease.

Laryngitis. Twelve cases had Laryngitis; eighteen had Tubercular Laryngitis.

Other Forms: Pregnancy, 3; Cervical Glands, 3; Asthma, 1; Myocarditis, 1; Nephritis, 1; Fistula in ano, 3; Epilepsy, 1; Rectal abscess, 1; Gangrenous Append, 1; Arterio Sclerosis, 1; Acute Mania, 1; Empyema Drainage, 1; T. B. Kidney, 1; Tecal fistula, 2; T. B. Peritonitis, 2; Syphilis, 1.

SPUTA

On entrance, 90 were positive, and 13 negative.

RESULTS

Mortality. Fifty cases were discharged dead.
Twenty-seven were unimproved on discharge.

TRANSFERRED

Four cases were transferred to Rutland; three to Tewksbury; one to Channing Home; two to North Reading; one to Boston Homoeopathic Hospital to be delivered; two to Essex County Hospital; one to U. S. Veterans' Hospital, New Haven; one to U. S. Veterans' Hospital, Rutland; one to Cambridge City Hospital.

RESIDENT

Forty-one cases remained in the hospital, December 31, 1923, as against forty-seven cases December 31, 1922. During the year three veterans of the recent World War were patients at the hospital, arrangements having been made with the United States Public Health Service to aid in the hospitalization of discharged veterans. There were also three veterans not under the care of the United States Veterans' Bureau.

FELIX MCGIRR, M. D.,
Physician in charge.

DISPENSARY FOR TUBERCULOSIS

The undersigned respectfully submits the annual report of the DISPENSARY FOR TUBERCULOSIS, for the year ending December 31, 1923.

The total number of physical examinations was 524.
Of this number, 162 patients reported for the first time.
According to sex, these were as follows:

Males.....83, Females.....79

There were 362 re-examinations.

The youngest patient examined was 7 months old.

The oldest patient examined was 65 years old.

There were 87 children examined under the age of 15 years.

The relative ages of the new cases follow in decades:

Under 10 years of age.....	54
Between 10 and 20 years of age.....	48
Between 20 and 30 years of age.....	26
Between 30 and 40 years of age.....	18
Between 40 and 50 years of age.....	12
Between 50 and 60 years of age.....	3
Between 60 and 70 years of age.....	1
Total	162

Diagnosis of the new cases:

Positive cases	28
Arrested cases	5
Suspicious cases	26
Negative cases	100
Deferred cases	6
Total	165

(Three cases of deferred diagnosis in 1922 report were classified in the above tabulation.)

The different types of Tuberculosis were manifested as follows:

Tuberculosis of the Lungs	29
Tuberculosis of the Elbow	1
Tuberculosis of the Larynx	3
Total	33

Ages of positive cases: 6, 7, 12, 13, 16, 16, 18, 18, 21, 22, 22, 23, 23, 23, 23, 26, 28, 29, 29, 33, 33, 38, 38, 38, 40, 40, 41, 44, 48, 49, 53, 55, 59.

Positive cases were divided according to sex as follows:

Males	22
Females	11

There were 19 suspicious cases under the age of 16 years.

Of the 28 positive cases examined 12 of these were original positive diagnosed cases.

The above is the eighth annual report of the DISPENSARY FOR TUBERCULOSIS. It will be noted that there were seventeen more physical examinations in the year 1923 than in any previous report. The number of new cases, however, was nineteen less than last year. The report, we think, shows very favorable progress and there was considerable evidence throughout the year that the Clinic was becoming better known in the community.

It was recommended in the report of 1921 that the under-nourished and delicate children might best be taken care of and prevented from contracting positive tuberculosis by sending them to Preventoria. It is pleasing and gratifying to state at this time that provision was made at the Sharon Preventorium for the care of a limited number of children who were Tuberculosis suspects, or showed a tendency to a disease. Six beds were allotted to Cambridge during the year 1923, and this Clinic recommended eleven children to occupy these beds; all returning after their stay showed substantial gain and unquestioned evidence of the good derived at the Preventorium. It is fair to state that double the number of beds could be kept occupied if they were allotted to us.

In this connection what applies to the good of our children also applies to the adults. There are many cases of adults who are run down and losing weight and showing signs of a suspicious nature that would be benefited by the care and treatment of the Preventorium life. This would enable them to go to an institution even before waiting for the diagnosis, and would, no doubt, act as a preventive in the greater number of cases.

I, therefore, in conclusion, would suggest that the Preventorium idea for adults would receive the same consideration as the one for the children,

The clinics are held at the old Out-Patient Department of the Municipal Hospital on Tuesday and Saturday mornings, from 10 to 12 o'clock. Thursday evenings from 7.30 to 9.00 P. M. The office will be open as usual daily except Sundays and Holidays from 8 to 9 A. M., in charge of the nurse.

Respectfully submitted,

PATRICK J. FLEMING, M. D.,
Dispensary Physician.

REPORT OF THE TUBERCULOSIS FIELD NURSES

We respectfully submit the following statistical report of our work during the year 1923:

New cases reported	200	
Cases discharged:		
Died	29	
Moved out of town	18	
Gone to hospitals.....	60	
Disappeared	3	
Private physicians	31	
	—	141
Cases (1923) carried to current year		59
Visiting list (home):		
Cases brought forward.....	782	
Cases admitted	62	
Returned patients from hospitals, sanatoriums, country, etc.	56	
	—	
Total admitted to list.....		900
Dropped:		
Died	93	
Gone to hospitals	40	
Moved out of town.....	44	
Disappeared	3	
	—	180
On Visiting List today.....		720
Home visits (original).....	178	
Home visits (subsequent).....	1,913	
	—	
Total		2,091
Predisposed or suspected cases:		
New cases on list.....	34	
At present on Visiting List.....	77	
	—	
Total		111

MARY L. THACHER, R. N.
HELEN C. CUMMINGS, R. N.

SCHOOL INSPECTION

The methods of school examinations and exclusions were carried on the same as in former years.

In co-operation with the School Department and Dr. Godvin of the Cambridge City Hospital, a posture clinic was established at the Cambridge City Hospital. Cases of posture defects found by the school nurses were referred to Dr. Godvin's Clinic.

S. B. KELLEHER, M. D.,

Medical Inspector.

REPORT OF THE SCHOOL NURSES, 1923

The work of the school nurses has been carried on as in former years under the direction of the Board of Health, and in co-operation with the School Department.

One more nurse was added to the force in June, making ten nurses now on the school work. This additional nurse has made it possible to take care of the parochial as well as the public schools. Every child attending school is under the supervision of the school nurses.

An examination of the school children takes place at the opening of school in September. Each child in the first, fourth and eighth grades is examined by the school physician. The pupils in the other grades are examined by the nurses, and any defects found are brought to the attention of the physicians. The nurses examine all the children in their districts once a month for any skin or scalp trouble.

There are scales in but seventeen buildings, which makes it very hard for the nurse in weighing and measuring the children. Ten schools are in need of scales. Without scales it is almost impossible to stimulate the interest of the underweight child. If he is weighed frequently and given a record of his weight he will work to improve it.

The four Open Air Schools are doing great work in the care of the delicate and undernourished children. There is great need of such a class in the Houghton district.

The dentists of Cambridge offered a prize of five dollars to every class graduating with 100 per cent. perfect teeth. The Harvard, Putnam, Thorndike and Houghton Schools each received a prize.

Two Day Camps were operated for five weeks during the summer at the Haggerty and the High and Latin Schools. As in former years, the Cambridge Anti-Tuberculosis Association supplied the food. A nurse was in attendance at all times, and each child was given special attention. A thorough examination was given by the physicians to the children on entering the school, and they were weighed and measured each week and a record of the weight sent home.

The Schick Test was given during the summer at the several playgrounds with very good results. No child was tested without the written consent of the parent. The testing has been carried on during the year in the schools. Records have been kept of each child tested. Clerical help should be employed so these records may be kept up and made available for reference.

Attached hereto is a detailed summary of the work of the School Nurses.

Respectfully submitted,

MARY C. CHURCH, R. N.,

School Nurse.

School Nurses' Report for Year Ending December 31, 1923

HOME VISITS

Malnutrition	488
Tonsilitis	207
Tonsils and adenoids.....	816
Pediculosis	526
Conjunctivitis	104
Ringworm	135
Scabies	196
Impetigo	395
Dental caries	743
Defective vision	899
Measles	52
Chicken pox	46
Pertussis	56
Mumps	62
Mental cases	12
Cervical glands	63
Readings and follow up of Schick	525
Colds	6
Culture taken	1
Running ears	5
Miscellaneous	1,313
Total	6,650

Dispensary visits	1,067
No. children for eye cases.....	1,016
No. children for ear cases.....	128
No. children for dental work.	7,270
No. children for medical work	488
No. children for surgical work	102
No. children for Binet test....	63
No. children for posture	36
Physicians' exams.	14,874
Nurses' exams.	136,417
Notices sent home.....	1,905

WORK CERTIFICATE

(See Report of Examiner)

SCHICK TEST AND DIPH-
THERIA IMMUNIZATION

Schicked	3,102
Read	2,863
Positive	1,116
Negative	918
Pseudo	182
Question	18
Toxin anti-toxin	3,402
Toxin anti-toxin finished.....	1,267

RE-SCHICKS NEGATIVE

Read	112
Positive	8
Pseudo	7
Negative	97

RE-SCHICK, T. A. T.

Read	114
Positive	15
Negative	76
Pseudo	23

WORK CERTIFICATE PHYSICAL EXAMINATION

To the Board of Health,
Cambridge, Mass.

Gentlemen :

I herewith respectfully submit the report of the physical examinations for work certificates for the year ending December, 1923 :

Number Seen	New Cases	Old Cases
2,631	1,839	792

CERTIFICATES DEFERRED

Few Days	Thirty Days	Rejected
343	388	2

DEFECTS

Defective teeth	209	Scabies	14
Defective vision	111	Cardiac	21
Defective hearing	2	Lung conditions	4
Strabismus	2	Dirty	1
Conjunctivitis	1	Pediculosis	244
Sores on skin.....	5	Tonsils and adenoids.....	189

Yours very truly,

S. C. ANDREWS, M. D.

SCHICK TEST AND DIPHTHERIA IMMUNIZATION

The following is the report of the Schick Test and Diphtheria Immunization work conducted by the special physicians employed for that work from May 1st to December 31st, 1923.

During the spring this work was carried on by Arthur E. Brides, M. D., who resigned on September 22, 1923, owing to his transfer to the New York district of the U. S. Public Health Service. Subsequently the writer was appointed to carry on the work.

As this preventive work is not compulsory, much of its success depends on the interest and co-operation of the School Department, and primarily upon the masters and principals of the public and parochial schools. Inasmuch as the public health authorities feel that this is such an important phase of preventive medicine, it has been very disappointing to note the lack of interest and activity on the part of some of the principals and teachers in certain sections of our city.

At the present time we are unable to show definitely, by statistics, the effect of our work, but next year it is hoped to show by comparative statistics, by districts, over a period of years, the value of this Diphtheria Prevention work. The following is a brief outline of the number of tests made, showing the reactions, and the number of persons immunized:

Schick tests given	3,102
Schick tests read	2,863
Positive reaction	1,116
Negative reaction	918
Pseudo or undetermined	829
Toxin-anti-toxin given	3,402
Immunizations completed	1,267

Respectfully,

GEORGE A. WHITE, M. D.

SCHOOL DENTAL CLINIC

The following report of the activities at the Dental Clinic for the year 1923 is respectfully submitted.

The Clinic, as in past years, is held in connection with the Out-Patient Department of the Cambridge City Hospital, and is located at No. 1491 Cambridge Street. Appointments for work are made through the School Nurses, and the sisters in charge of the various Parochial Schools. The Clinic is provided with the equivalent of two full-time dentists. We urge the need of additional personnel, in order that the Clinic may care for ever-increasing appointments, for which the present limited personnel cannot provide.

Patients:

Old cases	137
New cases	1,845
Total	1,982
Cases discharged	879
Cases continued	1,103

Treatments:

Number of visits	6,043
Number of fillings	4,670
Number of extractions	4,129
Number of treatments	2,993

DR. E. M. LUCK,
DR. M. F. SHEA,
DR. W. L. CRONIN,
DR. W. H. MORAN.

REPORT OF THE INFANT WELFARE NURSES

The Infant Welfare Nurses respectfully submit their report for the year 1923.

The work of the Infant Welfare Division was carried on as in former years, with the exception of one change in Clinic, from the Community House, Spring Street, East Cambridge, to the Putnam School, Fourth and Otis Streets.

Clinics are held at the following places:

Haggerty School, Cushing St.	Mondays	2.30 P.M.—3.30 P.M.
Morse School, Brookline & Allston Sts.	Mondays	3.00 P.M.—4.00 P.M.
Putnam School, Fourth & Otis Sts.	Tuesdays	3.00 P.M.—4.00 P.M.
Sleeper School Dudley St.	Weds.	3.00 P.M.—4.00 P.M.
Kelly School, Willow St.	Thurs.	3.00 P.M.—4.00 P.M.
Houghton School, Putnam Ave. & Magee St.	Friday	3.00 P.M.—4.00 P.M.

The nurses are grateful to the various Social and Welfare Agencies and private individuals for the co-operation and material aid given in our work.

The Department is grateful to Doctors Walter C. Feeley, Samuel E. Chaffen, M. L. Dressler, Samuel A. Clement, Elliott Hubbard and Stephen Biddle for their gratuitous services at the Clinics.

A detailed summary of our work is submitted herewith. Also the Infant Mortality per 1,000 live births for past ten years.

ANNUAL REPORT OF INFANT WELFARE—1923

Number of babies on Visiting List, January 1st, 1923.....1192

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
New Cases	67	140	168	122	87	108	164	177	177	82	150	70	1512
Breast fed	56	107	146	106	69	95	133	145	137	64	108	56	1222
Bottle fed	4	13	9	11	11	7	22	18	19	3	13	8	138
Breast and bottle	7	20	13	5	6	7	7	20	23	11	29	5	153
Closed cases	205	67	158	120	83	55	103	84	96	74	71	185	1301
Babies over one year	185	51	137	101	71	44	83	71	75	60	55	147	1080
Died	1	7	6	2	4	3	4	2	0	2	1	4	36
Moved	19	9	15	17	6	12	12	11	21	16	19	26	185
Home visits	701	702	870	808	665	772	918	982	756	540	869	772	9355
Oph. Neon.	0	3	4	1	1	1	0	1	1	3	0	2	17
Supp. Conj.	0	2	2	0	0	0	0	0	0	0	0	0	4

Number of babies on Visiting List, January 1st, 1924..... 1403

CLINICS

Clinics	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Haggerty School	3	4	3	5	4	4	5	4	3	5	4	4	48
Total attendance	8	24	9	38	56	35	66	52	46	69	65	52	520
New cases	0	5	0	5	9	3	5	6	3	5	6	5	52
Clinics													
Community House	4	2	4	3	4								17
Total attendance	73	24	42	72	79								290
New cases	15	8	5	3	15								46
Clinics													
Putnam School													
Total attendance						4	5	4	4	4	4	3	28
New cases						41	47	59	59	78	58	39	391
Clinics						4	5	4	9	13	5	6	46
Sleeper School	5	4	4	4	4	4	3	5	4	5	4	3	49
Total attendance	138	86	86	186	152	146	115	208	182	221	155	117	1790
New cases	10	4	9	22	19	17	18	24	12	15	12	6	168
Clinics													
Kelley School	4	3	5	3	5	4	4	5	4	4	4	4	49
Total attendance	68	88	110	78	152	125	147	160	193	201	158	143	1723
New cases	6	10	20	15	30	8	33	14	24	15	14	20	209
Clinics													
Houghton School	4	4	5	4	4	5	4	4	4	3	5	4	49
Total attendance	72	83	87	63	96	96	73	99	107	41	78	35	830
New cases	12	7	5	8	14	13	13	20	10	8	10	5	126
Clinics													
Morse School	4	4	4	4	4	3	5	4	3	4	4	5	48
Total attendance	40	62	42	107	119	101	146	160	126	189	189	130	1418
New cases	4	3	3	15	12	8	11	21	10	12	18	4	118

Total number of clinics.....	288
Total number of attendance	6962
Total number of new cases (1923)	765

INFANT MORTALITY (UNDER ONE (1) YEAR)

(Per 1,000 live births)

(Rate for State—1922—81.3 per 1 M live births)

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923
No. of births....	3,054	3,066	3,146	3,243	3,245	3,199	3,347	3,422	3,400	*3,434
No. of deaths....	244	243	243	205	303	205	276	200	241	213
Rate	79	79	77	63	93	64	82	61	70	62

*Registered at time report prepared.

Respectfully submitted, MARY A. MACDONALD, R. N.
BRIDGET A. HEANUE, R. N.
JENNIE T. MALONE, R. N.
AGNES C. TOOLE, R. N.

CHILD WELFARE WORK—WARD IV

Station: Cambridge Neighborhood House. Year ending December 31, 1923.

Total registration	571
Babies under 1 year.....	224
Babies between 1 and 2 years.....	347
New cases	540
City babies	391
Breast fed	
Bottle fed	
Breast and bottle fed	
Conference babies	149
Babies transferred from other stations.....	
Discharged	431
Completion of year of city supervision.....	193
Moved out of city.....	93
Died	23
Transferred to other nurses.....	7
Transferred to pre-school file.....	115
Pre-school children (2-6 years)	
Total registration	
New cases	43
Transferred from baby file.....	
Attendance at play room.....	235
Number of conferences	50
Total number attending.....	2,446
Conferences:	
Babies	
Children	
Home visits—total	2,922
To conference babies	1,569
To conference children.....	48
To city babies	1,305
Cases referred to	
Hospital clinics	14
Prenatal nurse	16
Cambridge Welfare Union	2
Private physician	30
Conference physician	8
Dentist	
Volunteer social worker	15
Home visits by volunteer social worker.....	

E. VERA DEAN, R. N.

REPORT OF THE CONTAGIOUS DISEASE NURSES

To the Honorable the Board of Health of the City of Cambridge.

The following is the report of the contagious disease nurses for the year ending December 31, 1923:

Old cases unreleased Jan. 1, 1923.....	34
New cases for isolation.....	627
All cases released.....	590
New cases	4,132
Scarlet fever	499
Diphtheria	252
Septic sore throat	7
Varicella	558
Rubeola	1,129
Rubella	25
Parotitis	395
Pertussis	956
Influenza	74
Lobar pneumonia	177
Cerebro-spinal meningitis	4
Anterior poliomyelitis	3
Encephalitis lethargica	9
Suppurative conjunctivitis	7
Trachoma	4
Syphilis	1
Gonorrhea	3
Malaria	2
Trichinosis	1
Hookworm	1
Dog bite	23
Tetanus	2
Original inspections (including investigations).....	6,277
Subsequent visits	1,544
Hospital cases	432
Unreported cases discovered.....	1,187
Unreleased cases December 31, 1923.....	71
Total number of visits.....	7,187

Respectfully submitted,

ANNA B. DRISCOLL, R. N.

ANNA E. MAGUIRE, R. N.

INSPECTION OF MILK AND VINEGAR

I respectfully submit the following report from the Department of Milk and Vinegar for the year 1923:

The number of samples collected and examined was as follows:

Number of samples from wagons	2,080
Number of samples from stores	739
Number of samples examined bacteriologically	643
<hr/>	
Total milk samples.....	3,462
Number of vinegar samples	110
Number of butter samples	120
Number of ice cream samples	52
Number of cream samples	75
Number of sediment tests on milk.....	40
<hr/>	
Number samples other than milk.....	397
Total of all samples.....	3,859

The average quality of milk for the last five years has been:

	1923	1922	1921	1920	1919
Per cent. solids.....	12.20	12.46	12.33	12.31	12.21
Per cent. fat.....	3.63	3.66	3.66	3.62	3.75

The State law requires not less than 12.00 per cent. milk solids, and not less than 3.35 per cent. milk fat. The average quality of the milk continues substantially above the statute requirement.

The average fat content of milk from stores was 3.72 per cent., and from wagons was 3.63 per cent. The higher figure for store milk is believed to be due to the effective competition now offered by chain stores. One series of such stores in particular, advertises and apparently endeavors to put out a 4.00 per cent. fat milk, and thus set an example of excellence which other stores may strive to equal. The influence of this competition is excellent, for the sale of this good milk at a low price tends to raise the quality of the entire supply.

During the year there were mailed 125 notices in cases where the quality of the milk fell below the legal standard.

For the sale of milk, licenses were issued to 55 wagon operators, and to 780 storekeepers. There were, therefore, 110 more storekeepers selling milk in 1923 than in 1922, and 183 more than in 1921. This pronounced increase is due largely to the entrance of the chain stores.

The results of the examination of milk for bacteria were as follows:

Bacteria per cubic centimeter:

100,000 and less.....	479—74.5 per cent.
Over 100,000 and less than 500,000.....	87—13.5 per cent.
Over 500,000	36— 5.6 per cent.
Indeterminate through plate liquefaction.....	41— 6.4 per cent.

These results show a continued improvement, and are undoubtedly due to increased pasteurization of the supply.

PASTEURIZED MILK

Opposition to the pasteurization of milk has been founded upon theories which the work of the passing years has shown to be faulty, and such opposition is now approaching the vanishing point, since the benefits to be derived from pasteurization have been definitely shown to far outweigh fancied disadvantages. I believe that a regulation should be at once adopted in approximately the following form: "All milk and cream sold in the City of Cambridge shall either be pasteurized in a manner and under conditions approved by the Board of Health, at a temperature of not less than 140 degrees Fahrenheit nor more than 145 degrees, for a period of thirty minutes, and immediately cooled to and kept at a temperature of not more than 45 degrees Fahrenheit, or shall be produced solely from properly accredited herds of tuberculin tested cows." This is the most important matter which now confronts us. The City of Boston has adopted the above regulation and after April 1, 1924, all milk sold there will be on the above basis. Cambridge should not lag behind. The average number of tubercular cows in the untested herd is 60 per cent. This appalling figure is in itself a sufficient reason for the adoption of the above regulation. These tubercular cows are either giving milk containing tubercle bacilli or are about to do so, according to the stage of the disease in the individual cow. This milk, when taken into the digestive tract in the raw form, is primarily responsible for most cases of tuberculosis in humans. Children are most susceptible. They become inoculated with the tubercle bacilli at an early age, through the agency of infected raw milk. According to their

powers of resistance, they either do or do not develop the disease at a later date. Vigorous, well-nourished children may successfully resist; poorly-nourished children have but little chance. Pasteurization renders tubercular raw milk safe, and does not materially alter the milk properties, if the pasteurization is properly done. Recent work shows that even the vitamin content of raw milk is not destroyed, if pasteurization is properly done. Over 90 per cent. of the milk supply is now pasteurized, and the main reason why the ratio of tuberculosis is on the decline is "Pasteurized Milk." Let us now remove the constant menace of raw milk from tubercular cows by adopting this proposed regulation. I have mentioned only tuberculosis. It is equally true that other disease producing organisms, such as diphtheria, typhoid, streptococci, and others, of frequent occurrence in milk, are destroyed by pasteurization. To those who insist on raw milk, we offer it in its safest form, milk from accredited herds of tuberculin tested cows. I urge the adoption of the above regulation without delay.

ICE CREAM

The quality of this commodity is distinctly improved.

VINEGAR

Since the adoption of a State standard identical with the Federal standard, few departures from the law are found.

BUTTER AND OLEOMARGARINE

Licenses were issued to 93 dealers in oleomargarine. The price of butter continues high, and the use of butter substitutes is large. The State law now requires that butter shall contain not less than 80 per cent. of milk fat. This is a concession to the dealer of 2.5 per cent., the former law requiring not less than 82.5 per cent. of milk fat. There is no excuse for the dealer who violates this law.

WILLIAM A. NOONAN, M. D.,
Inspector of Milk and Vinegar.

INSPECTORS OF SLAUGHTERING AND PROVISIONS

The following is the report of the Inspectors of Slaughtering and Inspector of Food and Provisions, for the year 1923.

*SLAUGHTERING INSPECTION

Veal slaughtered	23,153 in number
Veal condemned	627 in number
Poultry condemned	116 pounds

MARKET PRODUCTS CONDEMNED

Poultry	189 pounds
Beef	283 pounds
Lamb	47 pounds
Pork	106 pounds
Fish	315 pounds
Lobster	27 pounds
Clams and oysters	1½ gallons
Clams in shell	½ bushel

FRUIT CONDEMNED

Strawberries	321 quarts
Grapes	64 pounds
Canteloupe	5½ crates
Watermelon	27 in number
Pears	2½ bushels
Peaches	12½ baskets
Raspberries, blackberries and blueberries	41 quarts
Dates	61 pounds
Figs	427 pounds

VEGETABLES CONDEMNED

Potatoes	8½ bushels
Cabbage	31 pounds
Asparagus	67 bunches
Sweet potatoes	1½ bushels
Squash	1¼ barrels
Spinach and other greens	12½ bushels
Celery	9 bunches

MISCELLANEOUS PRODUCTS CONDEMNED

Pineapples and figs (crushed)	15 barrels
Fruit syrups	1½ barrels
Flour (wormy)	1½ barrels
Ice cream cones (dirt and filth)	147 in number
Potato chips	27 pounds
Grape fruit	31 in number

*The report of Dr. D. L. Bolger, Inspector of Slaughtering, is included.

Nine persons were in court for violation of Board of Health Rules, five for offering and selling food unfit for human consumption, four for keeping unsanitary stores and exposing food to dust, flies, and other means of contamination. All were found guilty and fines imposed.

Respectfully submitted,

JOSEPH L. JOHNSON,
Inspector of Slaughtering and Provisions.

HOUSING AND PLUMBING INSPECTOR

The following report of my work as Housing and Plumbing Inspector for the year 1923 is respectfully submitted.

The year appears to have been one of considerable improvement in the housing conditions, especially in the congested sections of the city. In accordance with your instructions, I have been specializing in improving water-closet facilities in dwellings used for occupancy by more than one family, to the end that each family be provided with a water-closet located in its own tenement. This has brought about the discontinuance of several unsanitary closets, which were found to be located in dark, damp cellars.

Some of the houses ordered vacated have subsequently been put in a sanitary condition suitable for habitation. Others have been brought to the attention of the Superintendent of Buildings, and they probably will be ordered demolished. The "over-crowding" conditions in some of our more congested districts are being improved constantly, probably not so rapidly as some would feel they should, but when one considers the lifelong habits of some of these people who have not yet become accustomed to our mode of living, this problem can be better appreciated.

Consistent with your expressed policy, I have been as reasonable and patient as conditions seem to warrant, relative to forcing installation of additional water-closets, always mindful of the financial burdens involved.

Complaints received	75
Complaints received, no cause	1
Complaints received, uncompleted	7
Complaints received, nuisance abated.....	161
Original visits	972
Subsequent visits	2,021
Plumbing tests made	81
Unsanitary conditions remedied, including relocations of water-closets, ventilation of bedrooms, etc.:	
Water-closets, installed	252
Houses vacated (uninhabitable).....	8
Windows in water-closets for light and ventilation.....	3

AUGUSTIN M. JOHNSON,
Housing Inspector.

VIOLATIONS OF REGULATIONS, NUISANCES ABATED, LICENSES GRANTED, ETC.

Water-closets—offensive and defective:

Filthy bowls (and urinals)	89
Leaking bowls	32
Broken bowls	25
Obstructed soil-pipes	70
Defective soil-pipes	70
Defective tanks	23
Defective traps	24
Defective, or no, ventilation	11
Closets not supplied with running water.....	183
New closets installed (See Housing Inspector's Report also).....	9
New bowls installed	30
Defective supply-pipes (from tank to bowl).....	48
Insufficient supply of running water.....	54

Sinks—offensive and defective (including wash-bowls, bath-tubs and set-tubs:

Filthy basins	21
Leaking basins	19
Defective traps	42
Defective drains	48
Obstructed drains	50
Untrapped drains	9
New sinks installed	8

Obstructed and defective house-drains	39
Offensive cesspools cleaned and removed	2
Offensive privy-vaults removed	2
Defective ice chest connections	12
Defective lunch cart connections	3
Defective barber shop connections	2
Wet and damp cellars remedied.....	56
Water in light wells	6
Stagnant water on premises removed	26
Stagnant water in streets and gutters removed	16
Dirty yards cleaned	432
Dirty roofs cleaned	15
Dirty buildings cleaned	12
Dirty light wells cleaned	8
Dirty cellars cleaned	191
Dirty sheds cleaned	15
Dirty stores cleaned	9
Dirty hencoops cleaned	40
Dirty stables cleaned	16
Uncovered manure pits properly covered.....	9
Manure pits repaired, and new pits built.....	13
Manure in yards and lots removed	14
Vacant lots cleaned	32
Defective, or lack of stable connections (gutters, traps and drains)....	6
Defective stable floors repaired.....	13
Filthy garbage receptacles cleaned.....	151
Filthy garbage bins cleaned	89
New garbage receptacles provided—with covers.....	163
New garbage receptacles—covers provided.....	94
Dead animals removed	49

Fowl removed from dwelling-houses (cellars, attics, etc.):	
Number of houses	14
Noisy roosters removed	33
Leaky roofs	13
Bakeries cleaned and whitened	2
Unsanitary dwellings vacated	5
Unsanitary stables vacated	1
Unsanitary barber shops vacated	0
Plumbing tests made (peppermint and blueing).....	6
Stables occupied without license.....	5
Keeping hens without license	35
Keeping pigeons without license.	14
Keeping hogs without license	4
Hearing notices posted	111
Hearings advertised in public press	5
Legal orders served	181
Houses disinfected	806
Public sanitariums—inspections and cleanings.....	295
Public sanitariums repaired	2
Inspections by sanitary inspectors.....	22,667
Subsequent inspections by sanitary inspectors.....	8,046
Complaints received by inspectors through office	1,124
Complaints received by inspectors outside of office	1,040
Complaints received and investigated—no cause	139
*Complaints received and investigated—nuisance abated	1,992
Visits by inspectors on venereal disease cases	186
Visits by inspectors on food establishment registration.....	814
Hearings given:	
On applications to keep horses	4
On applications to keep hens	91
On applications to keep pigeons	3
On applications to keep and sell live fowl	13
On applications to keep ducks	0
Permits granted:	
Stables—cows	10
Stables—horses	**6
Hens	77
Pigeons	2
Keep and sell live poultry	1
Licenses granted:	
Undertakers (including temporary conditional licenses).....	50
Manicure and massage	41
Rummage sales	34
Denatured alcohol dealers	41
To fill premises	4
Day Nursery	1
Non-alcoholic beverages	5
Registrations:	
Collect and cart manure	18
Collect and cart grease	23
Cart garbage	3
Sell ice	49

*Numerical difference between complaints investigated (abated), and complaints received is due to unabated nuisances brought forward from previous year and those carried to new year.

**Two had hearings in 1922.

Premises approved as suitable:

Day Nursery	1
To board infants	17
To maintain lying-in hospitals	6
To slaughter cattle	3

Permits issued for burial and removal of dead bodies:

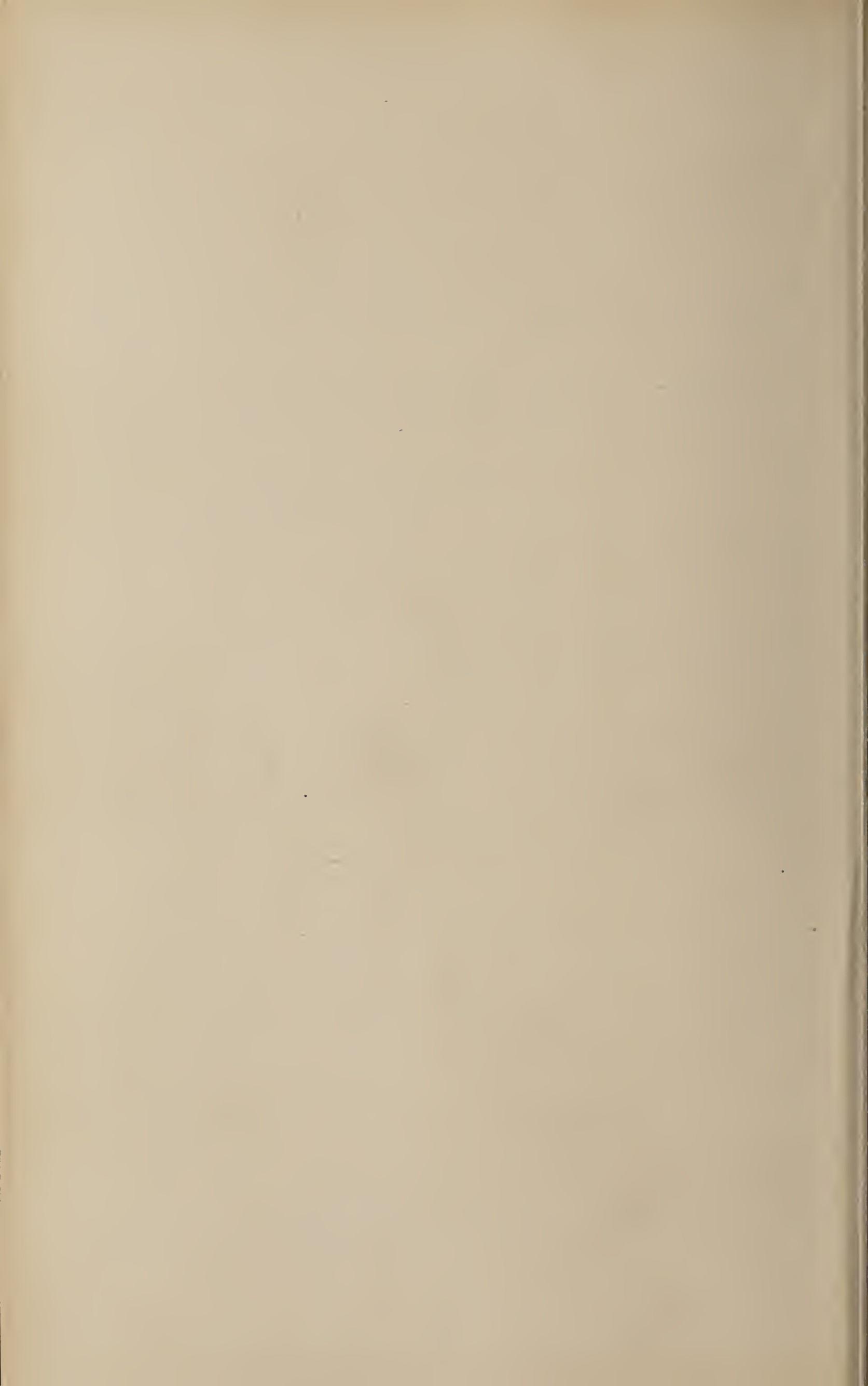
Died in Cambridge	1,662
Died outside of Cambridge	40
Disinterments	23

Patients removed to hospitals:

To Massachusetts Homeopathic Hospital, Brighton.....	301
To Tuberculosis Hospital, Concord avenue.....	28
To Cambridge City Hospital.....	4

Respectfully,

JOHN D. CROWLEY,
Clerk.



REPORT OF CITY TREASURER

LETTER OF TRANSMITTAL

City of Cambridge, Mass.

Office of the City Treasurer, April 1, 1924.

To the Honorable, the City Council:

In compliance with the provisions of Chapter 56 of the revised ordinances of 1892, amended to November 8, 1899, compiled to November 10, 1913, concerning "Annual reports of officers and boards in charge of departments," I respectfully submit herewith a detailed report of the receipts and expenditures of the public funds by the Treasury Department during the year ending March 31, 1924, including an account of all bonded and temporary loans negotiated in said year, also a detailed account of official fees received and reports of all trust funds in the care of the City Treasurer. In addition to the above, a report of the Commissioners of the Sinking Funds of the City, together with a report of the Committee of Finance, is included.

Very respectfully,

HENRY F. LEHAN,

City Treasurer.

TRIAL BALANCE TREASURER'S LEDGER, APRIL 1, 1924

	Dr.	Cr.
Cash	\$283,535 31	
Taxes 1913	334 60	
“ 1914	506 62	
“ 1915	655 60	
“ 1916	31,270 80	
“ 1917	31,011 74	
“ 1918	35,888 59	
“ 1919	37,722 16	
“ 1920	55,199 72	
“ 1921	75,522 20	
“ 1922 Poll	44,804 00	
“ 1922 Real	50,486 23	
“ 1923 Poll	52,345 00	
“ 1923 Real	575,685 26	
Sprinkling 1915	14 00	
“ 1916	30 39	
“ 1917	128 40	
Moths 1915	7 91	
“ 1916	6 08	
“ 1917	12 01	
“ 1918	6 47	
“ 1919	6 73	
“ 1920	20 58	
“ 1921	33 30	
“ 1922	17 45	
“ 1923	120 16	
Committed Sewer Interest	53 40	
Sewer Assessments	1,594 12	
Sidewalk Assessments	6,013 06	
Committed Sidewalk Interest	152 38	
Apportioned Sidewalk 1915	16 33	
“ 1916	23 92	
“ 1921	15 73	
“ 1922		\$14 99
“ 1923	1,458 08	
Health Department	21,983 95	
Sewer “	358 45	
Street “	5,442 32	
Public Welfare	52,411 51	
Hospital Department	59,948 15	
American Legion Post 27	1,873 92	
School Department	6,660 28	
Park “	744 72	
Cemetery “	5,477 95	
Annual Water Rates	2,546 20	
Metered “ “	376 32	
Miscellaneous Water	2,251 35	
Tax Lien Accounts	133,756 50	
Tax and Assessment Variation	225 94	
Accounts Payable		14,000 00
Anticipation Revenue Loans		950,000 00
Amounts carried forward.....	\$1,578,755 89	\$964,014 99

CITY TREASURER

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	Dr.	Cr.
Amounts brought forward.....	\$1,578,755 89	\$964,014 99
Premium on Loans		20,522 02
Treas. Cash Variations		478 97
Abatements prior to 1916	131,992 09	
Overlay 1918		12,252 03
“ 1919	994 48	
“ 1920	3,584 52	
“ 1921	1,678 39	
“ 1922		464 96
“ 1923	1,116 41	
Sewer Assessment Revenue		1,777 36
Sidewalk “ “		7,679 50
Department “ “		149,660 41
Water Revenue		5,163 87
Water Cash Surplus		146,585 02
Sale of City Land		26,047 00
Excess and Deficiency		12,297 27
School Balance		34,794 18
Harvard Trust Company	5,392 87	
Loans Authorized	30,000 00	
Tailings Accounts		5,392 87
Non-Revenue Appropriations		366,506 64
City Clerk, Dogs		254 40
Sewer Assessment on 1923 Tax Bills	128 84	
Departmental Emergency	25 00	
Purchase of Land	223 00	
Total	\$1,753,891 49	\$1,753,891 49

TEMPORARY LOANS IN ANTICIPATION OF REVENUE NEGOTIATED
DURING THE YEAR ENDING MARCH 31, 1924

Date	Maturity	Amount	Discount per Annum
April 5, 1923.....	Oct. 15, 1923.....	\$500,000 00	4.10% plus \$5.25
May 9, 1923.....	Nov. 1, 1923.....	500,000 00	4.18% plus 1.25
June 20, 1923.....	Feb. 1, 1924.....	150,000 00	3.50%
July 3, 1923.....	Nov. 15, 1923.....	400,000 00	4.17%
July 23, 1923.....	Dec. 3, 1923.....	500,000 00	4.19% plus 3.00
Oct. 10, 1923.....	Oct. 22, 1923.....	400,000 00	4.24%
Dec. 14, 1923.....	May 9, 1924.....	500,000 00	4.14% plus 7.00
Feb. 1, 1924.....	April 1, 1924.....	100,000 00	3.50%
Feb. 1, 1924.....	April 1, 1924.....	50,000 00	4.14%
Feb. 29, 1924.....	Oct. 16, 1924.....	300,000 00	4.04% plus 6.56
Total.....		\$3,400,000 00	

PARTICULARS CONCERNING BOND SALE NEGOTIATED DURING THE YEAR ENDING MARCH 31, 1924

Date of Bonds	Amount	Loan	Years to Run	Rate	Purchaser	Rate
June 1, 1923	\$35,000 00	Street Construction	\$7,000 annually for 5 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
June 1, 1923	85,000 00	Departmental Equip.	17,000 annually for 5 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
June 1, 1923	56,000 00	Street Construction	6,000 annually for 6 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
June 1, 1923	18,000 00	Building	5,000 annually for 4 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
June 1, 1923	26,000 00	First St. Bridge.....	1,000 annually for 18 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
June 1, 1923	45,000 00	Sep. System of Sewers.	2,000 annually for 6 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
July 15, 1923	63,000 00	Street Construction	1,000 annually for 14 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
July 15, 1923	225,000 00	Street Construction	1,500 annually for 30 yrs.	4 ¹ / ₄ %	Estabrook & Co.	100.53
July 15, 1923	80,000 00	School House	13,000 annually for 3 yrs.	4 ¹ / ₄ %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Construction	12,000 annually for 2 yrs.	4 ¹ / ₄ %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Sep. System.....	23,000 annually for 5 yrs.	4 ¹ / ₄ %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Sep. System.....	22,000 annually for 5 yrs.	4 ¹ / ₄ %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Sep. System.....	4,000 annually for 20 yrs.	4 ¹ / ₄ %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Sep. System.....	1,000 annually for 30 yrs.	4 %	R. L. Day & Co.	100.049
July 15, 1923	30,000 00	Sewer Sep. System.....	1,000 annually for 30 yrs.	4 %	R. L. Day & Co.	100.049
Total.....	\$693,000 00					

RECAPITULATION

Street	\$379,000 00
Sewer Separate System	75,000 00
Sewer Construction	30,000 00
Departmental Equipment	85,000 00
School House	80,000 00
First Street Bridge	26,000 00
Building	18,000 00
	<hr/>
	\$693,000 00

FEES

During the year ending March 31, 1924, the Treasurer has received official fees amounting to \$6,500.10, itemized as follows:

Tax Sale:

Preparation	\$347 00
Advertising	511 60
Deeds	540 00
Recording	150 75
Releases	125 00
Certification of liens	726 00
Affidavits	132 50
Posting	345 50
Demands	186 75
Examination of Titles	111 00
Statutory Fee	51 00
Taxes—Summonses	1,773 00
Services of department in collection of water rates, etc.....	1,500 00
	<hr/>
	\$6,500 10

REPORT OF TRUST FUNDS IN HANDS OF CITY
TREASURER

CEMETERY TRUST FUNDS

The following is the condition of the Funds:

Amount of Perpetual Care Fund March 31, 1923..	\$148,252 77	
Amount of Deeds in Trust Fund March 31, 1923..	452 00	
Received from owners of lots for perpetual care..	9,685 78	
Received from discount on bonds purchased.....	73 13	
	<hr/>	\$158,463 68

The assets of the funds are:

Registered bonds of the City of Cambridge....	\$1,150 00	
Registered Liberty Bonds of the United States	111,000 00	
Coupon Liberty Bonds of the United States....	43,000 00	
Cash in Harvard Trust Co.....	3,313 68	
	<hr/>	\$158,463 68

Cash Account

Dr.

Cash in Harvard Trust Co., March 31, 1923.....	\$554 77	
Received from owners of lots for perpetual care	9,685 78	
Received from interest on investments.....	6,337 16	
Received from discount on bonds purchased.....	73 13	
	<hr/>	\$16,650 84

CITY TREASURER

311

Cr.

Paid to Cemetery Commissioners for care of lots in perpetual care	\$6,215 33	
Paid for bonds purchased.....	7,000 00	
Paid interest accrued on bonds purchased... ..	121 83	
Balance on deposit in Harvard Trust Co.....	3,313 68	
		<hr/> \$16,650 84

Bond Account

Amount of bonds in fund March 31, 1923.....	\$148,150 00
Amount of bonds purchased.....	7,000 00

Amount of bonds in fund March 31, 1924.....	\$155,150 00
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List of Bonds Belonging to the Cemetery Trust Funds

City of Cambridge registered.....3½	May 1, 1925	\$950 00
City of Cambridge registered.....3½	Sept. 1, 1932	200 00
U. S. 3rd Liberty Loan registered.....4¼	Sept. 15, 1928	111,000 00
U. S. 3rd Liberty Loan coupon.....4¼	Sept. 15, 1928	31,000 00
U. S. 4th Liberty Loan coupon.....4¼	Oct. 15, 1938	12,000 00
		<hr/> \$155,150 00

Hopkins Fund

Dr.

Balance in bank March 31, 1923.....	\$284 24	
Received from Treasurer of Hopkins Fund.....	947 98	
Received from Harvard Trust Co. int. on balances	11 17	
		<hr/> \$1,243 39

Cr.

Paid City of Cambridge for tuition	\$400 00	
Paid sundry persons for supplies.....	149 94	
Paid Harold Rosenwald, prizes	110 00	
Paid Karl O. Anderson, prizes	115 00	
Paid Theodore Wolcott, prizes.....	15 00	
Paid Helen L. McNabb, prizes	100 00	
Paid Margaret Herlihy, prizes	75 00	
Paid Henry F. Williams, prizes	100 00	
Paid Elizabeth Gerould, prizes	10 00	
Balance in Harvard Trust Co., March 31, 1924.....	168 45	
		<hr/> \$1,243 39

William Penn Harding Fund

Amount of fund, March 31, 1923.....	\$1,000 00
Received and paid to the Trustees of the Cambridge Public Library interest on fund.....	50 00
The pass book of the East Cambridge Savings Bank shows that on March 31, 1924, the amount on deposit was.....	1,000 00

John Wesley Freeze Fund

Amount of the fund March 31, 1923.....	\$126 43
Interest added to deposit.....	5 74

Balance in Cambridgeport Savings Bank, March 31, 1924..	\$132 17
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Tailings Account

Amount of fund, March 31, 1923.....	\$5,261 57
Interest received on deposit.....	131 30

Balance March 31, 1924, on deposit at Harvard Trust Co....	\$5,392 87
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Bridge Charitable Fund

Amount of fund, March 31, 1923.....		\$2,939 75
Interest for the year.....	\$141 27	
Two-thirds paid to Overseers of Poor.....	94 18	
One-third added to principal.....		47 09
		<hr/>
Total of fund March 31, 1924.....		\$2,986 84

Sarah E. Russell Fund

Amount of fund, March 31, 1923.....		\$814 41
Received for interest \$37.04 and paid to John T. Shea, Superintendent of City Home.		

City Auditor's statement of provisions of Section 1, Chapter 322, Acts of 1904.

Under the provisions of Section 1, Chapter 322, Acts of 1904, I hereby certify that I have this day examined the accounts, vouchers, and securities belonging to the within trust funds held for public use and find them to be correct and in excellent condition.

Attest:

CHARLES H. THURSTON,

City Auditor.

The bonded City Debt matures as follows:

Issued serially, provided for in the annual tax levy.

Apr. 1, 1924,	Sewer Construction	4½s	\$500 00
May 1, 1924,	Sewer Sep. System.....	4s	1,000 00
May 1, 1924,	Sewer	3½s	500 00
May 1, 1924,	Cambridge Bridge	4s	2,000 00
June 1, 1924,	Street Construction	4s	2,000 00
June 1, 1924,	Hospital Building	4s	2,000 00
June 1, 1924,	Cemetery	4s	1,000 00
June 1, 1924,	Hospital	4s	2,000 00
June 1, 1924,	Sewer Construction	4s	500 00
June 1, 1924,	Sewer Sep. System.....	4s	500 00
June 1, 1924,	Street Construction	4¼s	7,000 00
June 1, 1924,	Dept. Equip.	4¼s	17,000 00
June 1, 1924,	Street Construction	4¼s	6,000 00
June 1, 1924,	Street Construction	4¼s	5,000 00
June 1, 1924,	Building	4¼s	1,000 00
June 1, 1924,	First St. Bridge.....	4¼s	2,000 00
June 1, 1924,	First St. Bridge.....	4¼s	1,000 00
June 1, 1924,	Sep. Sys. of Sewers.....	4¼s	1,500 00
July 1, 1924,	Street	4s	1,000 00
July 1, 1924,	Street	4s	3,500 00
July 1, 1924,	Street	3½s	2,500 00
July 1, 1924,	Street	4s	2,000 00
July 1, 1924,	Building	4s	4,000 00
July 1, 1924,	Sewer	4s	500 00
July 1, 1924,	Sewer Sep. System.....	4s	500 00
July 1, 1924,	Playground	4s	1,500 00
July 1, 1924,	Park	4s	1,000 00
July 1, 1924,	School House	4½s	3,250 00
July 1, 1924,	Street	4½s	2,000 00
July 1, 1924,	Street	4s	4,800 00
July 1, 1924,	Street	4s	3,500 00
July 1, 1924,	Bridge	4s	400 00
July 1, 1924,	Sewer Sep. System.....	4s	1,000 00
July 1, 1924,	Park	4s	1,000 00
July 1, 1924,	Street	4s	500 00
July 1, 1924,	School House	4½s	5,000 00
July 1, 1924,	Building	4½s	4,000 00
July 1, 1924,	Sewer	4½s	1,500 00
July 15, 1924,	Street Construction	4¼s	13,000 00
July 15, 1924,	Street Construction	4¼s	12,000 00
July 15, 1924,	Street Construction	4¼s	23,000 00
July 15, 1924,	Street Construction	4¼s	22,000 00
July 15, 1924,	School House	4¼s	4,000 00
July 15, 1924,	Sewer Construction	4s	1,000 00
July 15, 1924,	Sewer Sep. System.....	4s	1,000 00
Aug. 1, 1924,	Street	4s	12,000 00
Sept. 1, 1924,	Street	4s	6,000 00
Sept. 1, 1924,	Park	3½s	2,000 00
Sept. 1, 1924,	Street	4½s	800 00
Sept. 1, 1924,	Hospital	4½s	3,000 00
Sept. 1, 1924,	Building	4½s	1,000 00

Amount carried forward..... \$196,750 00

Amount brought forward..... \$196,750 00

Sept.	1, 1924,	Street	4 1/2 s	2,000 00
Oct.	1, 1924,	Street	4 s	2,750 00
Oct.	1, 1924,	Street	3 1/2 s	6,350 00
Oct.	1, 1924,	Street	4 s	500 00
Oct.	1, 1924,	Street	4 1/2 s	500 00
Oct.	1, 1924,	Street	4 1/2 s	2,000 00
Oct.	1, 1924,	Street	4 1/2 s	10,000 00
Oct.	1, 1924,	Street	4 1/2 s	1,000 00
Oct.	1, 1924,	Street	4 1/2 s	10,000 00
Oct.	1, 1924,	Street	4 1/2 s	2,500 00
Oct.	1, 1924,	Street	4 1/2 s	20,000 00
Oct.	1, 1924,	Sewer Construction	4 1/2 s	500 00
Oct.	1, 1924,	Sewer Construction	4 1/2 s	1,500 00
Oct.	1, 1924,	School House	4 1/2 s	1,000 00
Oct.	1, 1924,	Hospital	4 1/2 s	8,000 00
Oct.	1, 1924,	Street	5 1/2 s	14,000 00
Oct.	1, 1924,	Street	5 1/2 s	4,000 00
Oct.	1, 1924,	Street	5 1/2 s	2,000 00
Oct.	1, 1924,	Street	5 1/2 s	4,000 00
Oct.	1, 1924,	Dept. Equipment	5 1/2 s	10,000 00
Oct.	1, 1924,	School House	5 s	500 00
Oct.	1, 1924,	Street	5 s	1,500 00
Oct.	1, 1924,	Street	5 s	14,000 00
Oct.	1, 1924,	Sewer	5 s	1,000 00
Oct.	1, 1924,	Hospital	5 s	2,500 00
Oct.	1, 1924,	Sewer	5 s	1,000 00
Oct.	1, 1924,	Sewer	5 s	500 00
Oct.	1, 1924,	Street	5 1/2 s	11,000 00
Oct.	1, 1924,	Street	5 1/2 s	6,000 00
Oct.	1, 1924,	Add. Dept. Equipment..	5 1/2 s	11,000 00
Oct.	1, 1924,	School House	5 s	2,000 00
Oct.	1, 1924,	Street	5 s	23,000 00
Oct.	1, 1924,	Building	4 1/2 s	3,000 00
Oct.	1, 1924,	Sewer Construction	4 1/2 s	2,000 00
Oct.	1, 1924,	Sewer Sep. System.....	4 1/2 s	1,500 00
Oct.	1, 1924,	Street Construction	4 s	24,000 00
Oct.	1, 1924,	Street Construction	4 s	18,000 00
Oct.	1, 1924,	Street Construction	4 s	17,000 00
Oct.	1, 1924,	School House	4 s	13,000 00
Oct.	1, 1924,	First Street Bridge.....	4 s	4,000 00
Oct.	1, 1924,	Sewer Construction	4 s	500 00
Oct.	1, 1924,	Sewer Sep. System.....	4 s	1,000 00
Nov.	1, 1924,	Sewer	3 1/2 s	500 00
Nov.	1, 1924,	Street	4 s	5,000 00
Dec.	1, 1924,	Street	4 s	700 00
Dec.	1, 1924,	Street	4 s	400 00
Dec.	1, 1924,	Sewer	4 s	500 00
Dec.	1, 1924,	Street Construction	4 1/2 s	3,250 00
Dec.	1, 1924,	Building	4 1/2 s	3,000 00
Dec.	1, 1924,	Sewer Construction	4 1/2 s	1,000 00
Dec.	1, 1924,	Sewer Construction	4 1/2 s	500 00
Dec.	1, 1924,	Playground	4 s	300 00

Amount carried forward..... \$472,500 00

Amount brought forward..... \$472 500 00

Jan.	1, 1925,	Sewer	4s	500	00
Jan.	1, 1925,	Street	4s	3,250	00
Feb.	1, 1925,	Street	4s	600	00
Feb.	1, 1925,	Bldg. (School House)...	4s	500	00
Mar.	1, 1925,	Hospital	4s	4,500	00
Mar.	1, 1925,	Building (Hospital)	4s	2,000	00
Mar.	1, 1925,	Sewer	4s	500	00
Apr.	1, 1925,	Sewer Construction	4½s	500	00
May	1, 1925,	Sewer Sep. System.....	4s	1,000	00
May	1, 1925,	Sewer	3½s	500	00
May	1, 1925,	Cambridge Bridge	4s	2,000	00
June	1, 1925,	Street Construction	4s	2,000	00
June	1, 1925,	Hospital Building	4s	2,000	00
June	1, 1925,	Cemetery	4s	1,000	00
June	1, 1925,	Hospital	4s	2,000	00
June	1, 1925,	Sewer Construction	4s	500	00
June	1, 1925,	Sewer Sep. System.....	4s	500	00
June	1, 1925,	Street Construction	4¼s	7,000	00
June	1, 1925,	Dept. Equipment	4¼s	17,000	00
June	1, 1925,	Street Construction	4¼s	6,000	00
June	1, 1925,	Street Construction	4¼s	5,000	00
June	1, 1925,	Building	4¼s	1,000	00
June	1, 1925,	First St. Bridge.....	4¼s	2,000	00
June	1, 1925,	First St. Bridge.....	4¼s	1,000	00
June	1, 1925,	Sep. Sys. Sewers.....	4¼s	1,500	00
July	1, 1925,	Street	4s	1,000	00
July	1, 1925,	Street	4s	3,500	00
July	1, 1925,	Street	3½s	1,000	00
July	1, 1925,	Street	4s	2,000	00
July	1, 1925,	Building	4s	4,000	00
July	1, 1925,	Sewer	4s	500	00
July	1, 1925,	Sewer Sep. System.....	4s	500	00
July	1, 1925,	Playground	4s	1,500	00
July	1, 1925,	Park	4s	1,000	00
July	1, 1925,	School House	4½s	3,250	00
July	1, 1925,	Street	4½s	2,000	00
July	1, 1925,	Bridge	4s	400	00
July	1, 1925,	Sewer Sep. System.....	4s	1,000	00
July	1, 1925,	Park	4s	1,000	00
July	1, 1925,	School House	4½s	5,000	00
July	1, 1925,	Building	4½s	4,000	00
July	1, 1925,	Sewer	4½s	1,500	00
July	15, 1925,	Street Construction	4¼s	13,000	00
July	15, 1925,	Street Construction	4¼s	12,000	00
July	15, 1925,	Street Construction	4¼s	23,000	00
July	15, 1925,	Street Construction	4¼s	22,000	00
July	15, 1925,	School House	4¼s	4,000	00
July	15, 1925,	Sewer Construction	4s	1,000	00
July	15, 1925,	Sewer Sep. System.....	4s	1,000	00
Sept.	1, 1925,	Building	4½s	1,000	00
Sept.	1, 1925,	Street	4½s	2,000	00
Sept.	1, 1925,	Street	4s	6,000	00
Sept.	1, 1925,	Park	3½s	2,000	00

Amount carried forward..... \$657,000 00

Amount brought forward..... \$657,000 00

Sept.	1, 1925,	Hospital	4½s	3,000 00
Oct.	1, 1925,	Street	4s	2,750 00
Oct.	1, 1925,	Street	3½s	6,350 00
Oct.	1, 1925,	Street	4s	500 00
Oct.	1, 1925,	Street	4½s	10,000 00
Oct.	1, 1925,	Street	4½s	2,500 00
Oct.	1, 1925,	Street	4½s	20,000 00
Oct.	1, 1925,	Sewer Construction	4½s	500 00
Oct.	1, 1925,	Sewer Construction	4½s	1,500 00
Oct.	1, 1925,	School House	4½s	1,000 00
Oct.	1, 1925,	Hospital	4½s	8,000 00
Oct.	1, 1925,	Street	5½s	14,000 00
Oct.	1, 1925,	Street	5½s	4,000 00
Oct.	1, 1925,	Street	5½s	2,000 00
Oct.	1, 1925,	Street	5½s	4,000 00
Oct.	1, 1925,	Dept. Equipment	5½s	10,000 00
Oct.	1, 1925,	School House	5s	500 00
Oct.	1, 1925,	Street	5s	1,500 00
Oct.	1, 1925,	Street	5s	14,000 00
Oct.	1, 1925,	Sewer	5s	1,000 00
Oct.	1, 1925,	Hospital	5s	2,500 00
Oct.	1, 1925,	Sewer	5s	1,000 00
Oct.	1, 1925,	Sewer	5s	500 00
Oct.	1, 1925,	Street	5½s	11,000 00
Oct.	1, 1925,	Street	5½s	6,000 00
Oct.	1, 1925,	Add. Dept. Equipment...	5½s	11,000 00
Oct.	1, 1925,	School House	5s	2 000 00
Oct.	1, 1925,	Street	5s	23,000 00
Oct.	1, 1925,	Building	4½s	3,000 00
Oct.	1, 1925,	Sewer Construction	4½s	2,000 00
Oct.	1, 1925,	Sewer Sep. System.....	4½s	1,500 00
Oct.	1, 1925,	Street Construction	4s	24,000 00
Oct.	1, 1925,	Street Construction	4s	18,000 00
Oct.	1, 1925,	Street Construction	4s	17,000 00
Oct.	1, 1925,	School House	4s	13,000 00
Oct.	1, 1925,	First Street Bridge.....	4s	4,000 00
Oct.	1, 1925,	Sewer Construction	4s	500 00
Oct.	1, 1925,	Sewer Sep. System.....	4s	1,000 00
Nov.	1, 1925,	Sewer	3½s	500 00
Nov.	1, 1925,	Street	4s	5,000 00
Dec.	1, 1925,	Sewer Sep. System.....	4s	500 00
Dec.	1, 1925,	Street	4s	700 00
Dec.	1, 1925,	Street Construction	4½s	3,250 00
Dec.	1, 1925,	Building	4½s	3,000 00
Dec.	1, 1925,	Sewer Construction	4½s	1,000 00
Dec.	1, 1925,	Sewer Construction	4½s	500 00
Dec.	1, 1925,	Playground	4s	300 00
Jan.	1, 1926,	Sewer	4s	500 00
Jan.	1, 1926,	Street	4s	3,250 00
Feb.	1, 1926,	Street	4s	600 00
Feb.	1, 1926,	Bldg. (School House)...	4s	500 00
Mar.	1, 1926,	Hospital	4s	4,500 00
Mar.	1, 1926,	Building (Hospital)	4s	2,000 00

Amount carried forward..... \$931,200 00

Amount brought forward.....			\$931,200 00
Mar.	1, 1926,	Sewer .....4s	500 00
Apr.	1, 1926,	Sewer Construction .....4½s	500 00
May	1, 1926,	Sewer Sep. System.....4s	1,000 00
May	1, 1926,	Sewer .....3½s	500 00
May	1, 1926,	Cambridge Bridge .....4s	2,000 00
June	1, 1926,	Street Construction .....4s	2,000 00
June	1, 1926,	Hospital Building .....4s	2,000 00
June	1, 1926,	Cemetery .....4s	1,000 00
June	1, 1926,	Hospital .....4s	2,000 00
June	1, 1926,	Sewer Construction .....4s	500 00
June	1, 1926,	Sewer Sep. System.....4s	500 00
June	1, 1926,	Street Construction .....4¼s	7,000 00
June	1, 1926,	Dept. Equipment .....4¼s	17,000 00
June	1, 1926,	Street Construction .....4¼s	6,000 00
June	1, 1926,	Street Construction .....4¼s	5,000 00
June	1, 1926,	Building .....4¼s	1,000 00
June	1, 1926,	First St. Bridge.....4¼s	2,000 00
June	1, 1926,	First St. Bridge.....4¼s	1,000 00
June	1, 1926,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1926,	Street .....4s	3,500 00
July	1, 1926,	Street .....3½s	1,000 00
July	1, 1926,	Building .....4s	4,000 00
July	1, 1926,	School House .....4½s	5,000 00
July	1, 1926,	Building .....4½s	4,000 00
July	1, 1926,	Sewer .....4½s	1,500 00
July	1, 1926,	Sewer .....4s	500 00
July	1, 1926,	Sewer Sep. System.....4s	500 00
July	1, 1926,	Playground .....4s	1,000 00
July	1, 1926,	Park .....4s	1,000 00
July	1, 1926,	School House .....4½s	3,250 00
July	1, 1926,	Street .....4½s	2,000 00
July	1, 1926,	Bridge .....4s	400 00
July	1, 1926,	Sewer Sep. System.....4s	1,000 00
July	1, 1926,	Park .....4s	1,000 00
July	15, 1926,	Street Construction .....4¼s	13,000 00
July	15, 1926,	Street Construction .....4¼s	23,000 00
July	15, 1926,	Street Construction .....4¼s	22,000 00
July	15, 1926,	School House .....4¼s	4,000 00
July	15, 1926,	Sewer Construction .....4s	1,000 00
July	15, 1926,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1926,	Hospital .....4½s	3,000 00
Sept.	1, 1926,	Park .....3½s	2,000 00
Sept.	1, 1926,	Building .....4½s	1,000 00
Sept.	1, 1926,	Street .....4½s	2,000 00
Oct.	1, 1926,	Street .....4s	2,750 00
Oct.	1, 1926,	Street .....3½s	6,350 00
Oct.	1, 1926,	Street .....4½s	10,000 00
Oct.	1, 1926,	Street .....4½s	2,500 00
Oct.	1, 1926,	Street .....4½s	20,000 00
Oct.	1, 1926,	Sewer Construction .....4½s	500 00
Oct.	1, 1926,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1926,	School House .....4½s	1,000 00
Oct.	1, 1926,	Hospital .....4½s	8,000 00
Amount carried forward.....			\$1,138,450 00

Amount brought forward.....			\$1,138,450 00
Oct.	1, 1926,	School House .....5s	500 00
Oct.	1, 1926,	Street .....5s	1,500 00
Oct.	1, 1926,	Street .....5s	14,000 00
Oct.	1, 1926,	Sewer .....5s	1,000 00
Oct.	1, 1926,	Hospital .....5s	2,500 00
Oct.	1, 1926,	Sewer .....5s	1,000 00
Oct.	1, 1926,	Sewer .....5s	500 00
Oct.	1, 1926,	Street .....5½s	11,000 00
Oct.	1, 1926,	Street .....5½s	6,000 00
Oct.	1, 1926,	Add. Dept. Equipment....5½s	11,000 00
Oct.	1, 1926,	School House .....5s	2,000 00
Oct.	1, 1926,	Street .....5s	23,000 00
Oct.	1, 1926,	Building .....4½s	3,000 00
Oct.	1, 1926,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1926,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1926,	Street Construction .....4s	17,000 00
Oct.	1, 1926,	School House .....4s	13,000 00
Oct.	1, 1926,	First Street Bridge.....4s	4,000 00
Oct.	1, 1926,	Sewer Construction .....4s	500 00
Oct.	1, 1926,	Sewer Sep. System.....4s	1,000 00
Oct.	1, 1926,	Street Construction .....4s	24,000 00
Oct.	1, 1926,	Street Construction .....4s	18,000 00
Nov.	1, 1926,	Sewer .....3½s	500 00
Dec.	1, 1926,	Sewer Sep. System.....4s	500 00
Dec.	1, 1926,	Street Construction .....4½s	3,250 00
Dec.	1, 1926,	Building .....4½s	3,000 00
Dec.	1, 1926,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1926,	Sewer Construction .....4½s	500 00
Dec.	1, 1926,	Playground .....4s	300 00
Jan.	1, 1927,	Sewer .....4s	500 00
Jan.	1, 1927,	School House .....4s	3,250 00
Feb.	1, 1927,	Bldg. (School House)...4s	500 00
Mar.	1, 1927,	Hospital .....4s	4,500 00
Mar.	1, 1927,	Building (Hospital) .....4s	2,000 00
Apr.	1, 1927,	Sewer Construction .....4½s	500 00
May	1, 1927,	Sewer .....3½s	500 00
May	1, 1927,	Cambridge Bridge .....4s	2,000 00
June	1, 1927,	Street Construction .....4s	2,000 00
June	1, 1927,	Hospital Building .....4s	2,000 00
June	1, 1927,	Cemetery .....4s	1,000 00
June	1, 1927,	Hospital .....4s	2,000 00
June	1, 1927,	Sewer Construction .....4s	500 00
June	1, 1927,	Sewer Sep. System.....4s	500 00
June	1, 1927,	Street Construction .....4¼s	7,000 00
June	1, 1927,	Dept. Equipment .....4¼s	17,000 00
June	1, 1927,	Street Construction .....4¼s	6,000 00
June	1, 1927,	Street Construction .....4¼s	5,000 00
June	1, 1927,	Building .....4¼s	1,000 00
June	1, 1927,	First St. Bridge.....4¼s	2,000 00
June	1, 1927,	First St. Bridge.....4¼s	1,000 00
June	1, 1927,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1927,	Building .....4s	4,000 00
July	1, 1927,	Sewer4s	500 00
Amount carried forward.....			\$1,372,250 00

CITY TREASURER

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Amount brought forward..... \$1,372,250 00

July	1, 1927,	Sewer Sep. System4s	500 00
July	1, 1927,	Playground4s	1,000 00
July	1, 1927,	Park .....4s	1,000 00
July	1, 1927,	School House .....4½s	3,250 00
July	1, 1927,	Street .....4½s	2,000 00
July	1, 1927,	Bridge .....4s	400 00
July	1, 1927,	Sewer Sep. System .....4s	1,000 00
July	1, 1927,	Park .....4s	1,000 00
July	1, 1927,	School House .....4½s	5,000 00
July	1, 1927,	Building .....4½s	4,000 00
July	1, 1927,	Sewer .....4½s	1,500 00
July	15, 1927,	Street Construction ....4¼s	23,000 00
July	15, 1927,	Street Construction ....4¼s	22,000 00
July	15, 1927,	School House .....4¼s	4,000 00
July	15, 1927,	Sewer Construction .....4s	1,000 00
July	15, 1927,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1927,	Building .....4½s	1,000 00
Sept.	1, 1927,	Street .....4½s	2,000 00
Sept.	1, 1927,	Park .....3½s	2,000 00
Sept.	1, 1927,	Hospital .....4½s	3,000 00
Oct.	1, 1927,	Street .....4½s	10,000 00
Oct.	1, 1927,	Street .....4½s	2,500 00
Oct.	1, 1927,	Street .....4½s	20,000 00
Oct.	1, 1927,	Sewer Construction ....4½s	500 00
Oct.	1, 1927,	Sewer Construction ....4½s	1,500 00
Oct.	1, 1927,	School House .....4½s	1,000 00
Oct.	1, 1927,	Hospital .....4½s	8,000 00
Oct.	1, 1927,	School House .....5s	500 00
Oct.	1, 1927,	Street .....5s	1,500 00
Oct.	1, 1927,	Street .....5s	14,000 00
Oct.	1, 1927,	Sewer .....5s	1,000 00
Oct.	1, 1927,	Hospital .....5s	2,500 00
Oct.	1, 1927,	Sewer .....5s	1,000 00
Oct.	1, 1927,	Sewer .....5s	500 00
Oct.	1, 1927,	School House .....5s	2,000 00
Oct.	1, 1927,	Street .....5s	23,000 00
Oct.	1, 1927,	Building .....4½s	2,000 00
Oct.	1, 1927,	Sewer Construction ....4½s	2,000 00
Oct.	1, 1927,	Sewer Sep. System .....4½s	1,500 00
Oct.	1, 1927,	Street Construction ....4s	17,000 00
Oct.	1, 1927,	School House .....4s	13,000 00
Oct.	1, 1927,	First Street Bridge .....4s	4,000 00
Oct.	1, 1927,	Sewer Construction ....4s	500 00
Oct.	1, 1927,	Sewer Sep. System .....4s	1,000 00
Nov.	1, 1927,	Sewer .....3½s	500 00
Dec.	1, 1927,	Sewer Sep. System ....4s	500 00
Dec.	1, 1927,	Street Construction ....4½s	3,250 00
Dec.	1, 1927,	Building .....4½s	3,000 00
Dec.	1, 1927,	Sewer Construction ....4½s	1,000 00
Dec.	1, 1927,	Sewer Construction ....4½s	500 00
Dec.	1, 1927,	Playground .....4s	300 00
Jan.	1, 1928,	Sewer .....4s	500 00
Jan.	1, 1928,	School House .....4s	3,250 00
Feb.	1, 1928,	Bldg. (School House) 4s	500 00
Mar.	1, 1928,	Hospital .....4s	4,500 00

Amount carried forward..... \$1,600,200 00

Amount brought forward.....			\$1,600,200 00
Mar.	1, 1928,	Building (Hospital) ....4s	2,000 00
Apr.	1, 1928,	Sewer Construction .....4½s	500 00
May	1, 1928,	Sewer .....3½s	500 00
May	1, 1928,	Cambridge Bridge .....4s	2,000 00
June	1, 1928,	Hospital Building .....4s	2,000 00
June	1, 1928,	Cemetery .....4s	1,000 00
June	1, 1928,	Hospital .....4s	2,000 00
June	1, 1928,	Sewer Construction .....4s	500 00
June	1, 1928,	Sewer Sep. System .....4s	500 00
June	1, 1928,	Street Construction .....4¼s	7,000 00
June	1, 1928,	Dept. Equipment .....4¼s	17,000 00
June	1, 1928,	Street Construction .....4¼s	6,000 00
June	1, 1928,	Building .....4¼s	1,000 00
June	1, 1928,	First St. Bridge .....4¼s	2,000 00
June	1, 1928,	First St. Bridge .....4¼s	1,000 00
June	1, 1928,	Sep. Sys. of Sewers.....4¼s	1,500 00
July	1, 1928,	Building .....4s	4,000 00
July	1, 1928,	Sewer .....4s	500 00
July	1, 1928,	Sewer Sep. System .....4s	500 00
July	1, 1928,	Playground .....4s	1,000 000
July	1, 1928,	Park .....4s	1,000 00
July	1, 1928,	School House .....4½s	3,250 00
July	1, 1928,	Street .....4½s	2,000 00
July	1, 1928,	Bridge .....4s	400 00
July	1, 1928,	Sewer Sep. System .....4s	1,000 00
July	1, 1928,	Park .....4s	1,000 00
July	1, 1928,	School House .....4½s	5,000 00
July	1, 1928,	Building .....4½s	4,000 00
July	1, 1928,	Sewer .....4½s	1,000 00
July	15, 1928,	Street Construction .....4¼s	23,000 00
July	15, 1928,	Street Construction .....4¼s	22,000 00
July	15, 1928,	School House .....4¼s	4,000 00
July	15, 1928,	Sewer Construction .....4s	1,000 00
July	15, 1928,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1928,	Building .....4½s	1,000 00
Sept.	1, 1928,	Park .....3½s	2,000 00
Sept.	1, 1928,	Hospital .....4½s	3,000 00
Oct.	1, 1928,	Street .....4½s	10,000 00
Oct.	1, 1928,	Street .....4½s	2,500 00
Oct.	1, 1928,	Street .....4½s	10,000 00
Oct.	1, 1928,	Sewer Construction .....4½s	500 00
Oct.	1, 1928,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1928,	School House .....4½s	1,000 00
Oct.	1, 1928,	Hospital .....4½s	8,000 00
Oct.	1, 1928,	Street .....5s	1,500 00
Oct.	1, 1928,	Street .....5s	14,000 00
Oct.	1, 1928,	Sewer .....5s	1,000 00
Oct.	1, 1928,	Hospital .....5s	2,500 00
Oct.	1, 1928,	Sewer .....5s	1,000 00
Oct.	1, 1928,	Sewer .....5s	500 00
Oct.	1, 1928,	School House .....5s	2,000 00
Oct.	1, 1928,	Street .....5s	23,000 00
Oct.	1, 1928,	Building .....4½s	2,000 00
Oct.	1, 1928,	Sewer Construction .....4½s	2,000 00
Amount carried forward.....			\$1,811,350 00

Amount brought forward..... \$1,811,350 00

Oct.	1, 1928,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1928,	Street Construction .....4s	17,000 00
Oct.	1, 1928,	School House .....4s	13,000 00
Oct.	1, 1928,	First Street Bridge.....4s	4,000 00
Oct.	1, 1928,	Sewer Construction .....4s	500 00
Oct.	1, 1928,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1928,	Sewer .....3½s	500 00
Dec.	1, 1928,	Sewer Sep. System.....4s	500 00
Dec.	1, 1928,	Street Construction .....4½s	3,250 00
Dec.	1, 1928,	Building .....4½s	3,000 00
Dec.	1, 1928,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1928,	Sewer Construction .....4½s	500 00
Dec.	1, 1928,	Playground .....4s	300 00
Jan.	1, 1929,	Sewer .....4s	500 00
Jan.	1, 1929,	School House .....4s	3,250 00
Feb.	1, 1929,	Bldg. (School House)....4s	500 00
Mar.	1, 1929,	Hospital .....4s	4,500 00
Mar.	1, 1929,	Building (Hospital) .....4s	2,000 00
Apr.	1, 1929,	Sewer Construction .....4½s	500 00
May	1, 1929,	Sewer .....3½s	500 00
May	1, 1929,	Cambridge Bridge .....4s	2,000 00
June	1, 1929,	Hospital Building .....4s	2,000 00
June	1, 1929,	Cemetery .....4s	1,000 00
June	1, 1929,	Hospital .....4s	2,000 00
June	1, 1929,	Sewer Construction .....4s	500 00
June	1, 1929,	Sewer Sep. System.....4s	500 00
June	1, 1929,	Street Construction .....4¼s	6,000 00
June	1, 1929,	Building .....4¼s	1,000 00
June	1, 1929,	First St. Bridge.....4¼s	2,000 00
June	1, 1929,	First St. Bridge.....4¼s	1,000 00
June	1, 1929,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1929,	Building .....4s	4,000 00
July	1, 1929,	Sewer .....4s	500 00
July	1, 1929,	Sewer Sep. System.....4s	500 00
July	1, 1929,	Playground .....4s	1,000 00
July	1, 1929,	Park .....4s	1,000 00
July	1, 1929,	School House .....4½s	3,250 00
July	1, 1929,	Street .....4½s	2,000 00
July	1, 1929,	Bridge .....4s	400 00
July	1, 1929,	Sewer Sep. System.....4s	1,000 00
July	1, 1929,	Park .....4s	1,000 00
July	1, 1929,	School House .....4½s	5,000 00
July	1, 1929,	Buildings .....4½s	4,000 00
July	1, 1929,	Sewer .....4½s	1,000 00
July	15, 1929,	School House .....4¼s	4,000 00
July	15, 1929,	Sewer Construction .....4s	1,000 00
July	15, 1929,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1929,	Building .....4½s	1,000 00
Sept.	1, 1929,	Park .....3½s	2,000 00
Sept.	1, 1929,	Hospital .....4½s	3,000 00
Oct.	1, 1929,	Street .....4½s	10,000 00
Oct.	1, 1929,	Street .....4½s	2,500 00
Oct.	1, 1929,	Street .....4½s	10,000 00

Amount carried forward..... \$1,947,800 00

Amount brought forward..... \$1,947,800 00

Oct.	1, 1929,	Sewer Construction	4½s	500	00
Oct.	1, 1929,	Sewer Construction	4½s	1,500	00
Oct.	1, 1929,	School House	4½s	1,000	00
Oct.	1, 1929,	Hospital	4½s	8,000	00
Oct.	1, 1929,	Street	5s	1,500	00
Oct.	1, 1929,	Street	5s	14,000	00
Oct.	1, 1929,	Sewer	5s	1,000	00
Oct.	1, 1929,	Hospital	5s	2,500	00
Oct.	1, 1929,	Sewer	5s	1,000	00
Oct.	1, 1929,	Sewer	5s	500	00
Oct.	1, 1929,	School House	5s	2,000	00
Oct.	1, 1929,	Street	5s	23,000	00
Oct.	1, 1929,	Building	4½s	2,000	00
Oct.	1, 1929,	Sewer Construction	4½s	2,000	00
Oct.	1, 1929,	Sewer Sep. System.....	4½s	1,500	00
Oct.	1, 1929,	School House	4s	13,000	00
Oct.	1, 1929,	First Street Bridge.....	4s	4,000	00
Oct.	1, 1929,	Sewer Construction	4s	500	00
Oct.	1, 1929,	Sewer Sep. System.....	4s	1,000	00
Nov.	1, 1929,	Sewer	3½s	500	00
Dec.	1, 1929,	Sewer Sep. System.....	4s	500	00
Dec.	1, 1929,	Sewer Construction	4½s	1,000	00
Dec.	1, 1929,	Sewer Construction	4½s	500	00
Dec.	1, 1929,	Playground	4s	300	00
Jan.	1, 1930,	Sewer	4s	500	00
Jan.	1, 1930,	School House	4s	3,250	00
Feb.	1, 1930,	Bldg. (School House)...	4s	500	00
Mar.	1, 1930,	Hospital	4s	4,500	00
Mar.	1, 1930,	Building (Hospital)	4s	2,000	00
Apr.	1, 1930,	Sewer Construction	4½s	500	00
May	1, 1930,	Sewer	3½s	500	00
May	1, 1930,	Cambridge Bridge	4s	2,000	00
June	1, 1930,	Hospital Building	4s	2,000	00
June	1, 1930,	Cemetery	4s	1,000	00
June	1, 1930,	Hospital	4s	2,000	00
June	1, 1930,	Sewer Construction	4s	500	00
June	1, 1930,	Sewer Sep. System.....	4s	500	00
June	1, 1930,	Building	4¼s	1,000	00
June	1, 1930,	First St. Bridge.....	4¼s	1,000	00
June	1, 1930,	Sewer Sep. System.....	4¼s	1,500	00
July	1, 1930,	Building	4s	4,000	00
July	1, 1930,	Sewer	4s	500	00
July	1, 1930,	Sewer Sep. System.....	4s	500	00
July	1, 1930,	Playground	4s	1,000	00
July	1, 1930,	Park	4s	1,000	00
July	1, 1930,	School House	4½s	3,250	00
July	1, 1930,	Street	4½s	2,000	00
July	1, 1930,	Bridge	4s	400	00
July	1, 1930,	Sewer Sep. System.....	4s	1,000	00
July	1, 1930,	Park	4s	1,000	00
July	1, 1930,	Building	4½s	1,000	00
July	15, 1930,	School House	4¼s	4,000	00
July	15, 1930,	Sewer Construction	4s	1,000	00

Amount carried forward..... \$2,075,000 00

Amount brought forward.....			\$2,075,000 00
July 15, 1930,	Sewer Sep. System.....4s	1,000 00	
Sept. 1, 1930,	Building .....4½s	1,000 00	
Sept. 1, 1930,	Park .....3½s	2,000 00	
Sept. 1, 1930,	Hospital .....4½s	3,000 00	
Oct. 1, 1930,	Sewer Construction .....4½s	500 00	
Oct. 1, 1930,	Sewer Construction .....4½s	1,500 00	
Oct. 1, 1930,	School House .....4½s	1,000 00	
Oct. 1, 1930,	Hospital .....4½s	8,000 00	
Oct. 1, 1930,	Street .....5s	1,500 00	
Oct. 1, 1930,	Street .....5s	14,000 00	
Oct. 1, 1930,	Sewer .....5s	1,000 00	
Oct. 1, 1930,	Hospital .....5s	2,500 00	
Oct. 1, 1930,	School House .....4s	13,000 00	
Oct. 1, 1930,	First Street Bridge.....4s	4,000 00	
Oct. 1, 1930,	Sewer Construction .....4s	500 00	
Oct. 1, 1930,	Sewer Sep. System.....4s	1,000 00	
Oct. 1, 1930,	Sewer .....5s	1,000 00	
Oct. 1, 1930,	Sewer .....5s	500 00	
Oct. 1, 1930,	School House .....5s	2,000 00	
Oct. 1, 1930,	Street .....5s	23,000 00	
Oct. 1, 1930,	Building .....4½s	2,000 00	
Oct. 1, 1930,	Sewer Construction .....4½s	2,000 00	
Oct. 1, 1930,	Sewer Sep. System.....4½s	1,500 00	
Nov. 1, 1930,	Sewer .....3½s	500 00	
Dec. 1, 1930,	Sewer Sep. System.....4s	500 00	
Dec. 1, 1930,	Sewer Construction .....4½s	1,000 00	
Dec. 1, 1930,	Sewer Construction .....4½s	500 00	
Dec. 1, 1930,	Playground .....4s	300 00	
Jan. 1, 1931,	Sewer .....4s	500 00	
Jan. 1, 1931,	School House .....4s	3,250 00	
Feb. 1, 1931,	Bldg. (School House)....4s	500 00	
Mar. 1, 1931,	Hospital .....4s	4,500 00	
Mar. 1, 1931,	Building (Hospital) ....4s	2,000 00	
Apr. 1, 1931,	Sewer Construction .....4½s	500 00	
May 1, 1931,	Sewer .....3½s	500 00	
May 1, 1931,	Cambridge Bridge .....4s	2,000 00	
June 1, 1931,	Hospital Building .....4s	2,000 00	
June 1, 1931,	Cemetery .....4s	1,000 00	
June 1, 1931,	Hospital .....4s	2,000 00	
June 1, 1931,	Sewer Construction .....4s	500 00	
June 1, 1931,	Sewer Sep. System.....4s	500 00	
June 1, 1931,	Building .....4¼s	1,000 00	
June 1, 1931,	First St. Bridge.....4¼s	1,000 00	
June 1, 1931,	Sewer Sep. System.....4¼s	1,500 00	
July 1, 1931,	School House .....4½s	5,000 00	
July 1, 1931,	Building .....4½s	4,000 00	
July 1, 1931,	Sewer .....4½s	1,000 00	
July 1, 1931,	Building .....4½s	4,000 00	
July 1, 1931,	Sewer .....4s	500 00	
July 1, 1931,	Sewer Sep. System.....4s	500 00	
July 1, 1931,	Playground .....4s	1,000 00	
July 1, 1931,	Park .....4s	1,000 00	
July 1, 1931,	Street .....4½s	2,000 00	

Amount carried forward..... \$2,207,550 00

Amount brought forward.....			\$2,207,550 00
July	1, 1931,	Bridge .....4s	400 00
July	1, 1931,	Sewer Sep. System.....4s	1,000 00
July	1, 1931,	Park .....4s	1,000 00
July	15, 1931,	School House .....4¼s	4,000 00
July	15, 1931,	Sewer Construction .....4s	1,000 00
July	15, 1931,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1931,	Park .....3½s	2,000 00
Sept.	1, 1931,	Building .....4½s	1,000 00
Oct.	1, 1931,	Sewer Construction .....4½s	500 00
Oct.	1, 1931,	Sewer Construction .....4½	1,500 00
Oct.	1, 1931,	School House .....4½s	1,000 00
Oct.	1, 1931,	Hospital .....4½s	8,000 00
Oct.	1, 1931,	Sewer .....5s	1,000 00
Oct.	1, 1931,	Hospital .....5s	2,500 00
Oct.	1, 1931,	Sewer .....5s	1,000 00
Oct.	1, 1931,	Sewer .....5s	500 00
Oct.	1, 1931,	Street .....5s	23,000 00
Oct.	1, 1931,	Building .....4½s	2,000 00
Oct.	1, 1931,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1931,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1931,	School House .....4s	13,000 00
Oct.	1, 1931,	First Street Bridge.....4s	4,000 00
Oct.	1, 1931,	Sewer Construction .....4s	500 00
Oct.	1, 1931,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1931,	Sewer .....3½s	500 00
Dec.	1, 1931,	Sewer Sep. System.....4s	500 00
Dec.	1, 1931,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1931,	Sewer Construction .....4½s	500 00
Dec.	1, 1931,	Playground .....4s	300 00
Jan.	1, 1932,	Sewer .....4s	500 00
Jan.	1, 1932,	School House .....4s	3,250 00
Feb.	1, 1932,	Bldg. (School House)....4s	500 00
Mar.	1, 1932,	Hospital .....4s	4,500 00
Mar.	1, 1932,	Building (Hospital) ....4s	2,000 00
Apr.	1, 1932,	Sewer Construction .....4½s	500 00
May	1, 1932,	Sewer .....3½s	500 00
May	1, 1932,	Cambridge Bridge .....4s	2,000 00
June	1, 1932,	Hospital Building .....4s	2,000 00
June	1, 1932,	Cemetery .....4s	1,000 00
June	1, 1932,	Hospital .....4s	2,000 00
June	1, 1932,	Sewer Construction .....4s	500 00
June	1, 1932,	Sewer Sep. System.....4s	500 00
June	1, 1932,	Building .....4¼s	1,000 00
June	1, 1932,	First St. Bridge.....4¼s	1,000 00
June	1, 1932,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1932,	Building .....4s	4,000 00
July	1, 1932,	Sewer .....4s	500 00
July	1, 1932,	Sewer Sep. System.....4s	500 00
July	1, 1932,	Playground .....4s	1,000 00
July	1, 1932,	Park .....4s	1,000 00
July	1, 1932,	School House .....4½s	3,250 00
July	1, 1932,	Street .....4½s	2,000 00
July	1, 1932,	Bridge .....4s	400 00
Amount carried forward.....			\$2,320,650 00

Amount brought forward..... \$2,320,650 00

July	1, 1932,	Sewer Sep. System.....4s	1,000 00
July	1, 1932,	Park .....4s	1,000 00
July	1, 1932,	School House .....4½s	5,000 00
July	1, 1932,	Building .....4½s	4,000 00
July	1, 1932,	Sewer .....4½s	1,000 00
July	15, 1932,	School House .....4¼s	4,000 00
July	15, 1932,	Sewer Construction .....4s	1,000 00
July	15, 1932,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1932,	Building .....4½s	1,000 00
Sept.	1, 1932,	Park .....3½s	2,000 00
Sept.	1, 1932,	Hospital .....4½s	3,000 00
Oct.	1, 1932,	Sewer Construction .....4½s	500 00
Oct.	1, 1932,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1932,	School House .....4½s	1,000 00
Oct.	1, 1932,	Hospital .....4½s	8,000 00
Oct.	1, 1932,	Sewer .....5s	1,000 00
Oct.	1, 1932,	Hospital .....5s	2,500 00
Oct.	1, 1932,	Sewer .....5s	1,000 00
Oct.	1, 1932,	Sewer .....5s	500 00
Oct.	1, 1932,	Building .....4½s	2,000 00
Oct.	1, 1932,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1932,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1932,	School House .....4s	13,000 00
Oct.	1, 1932,	First Street Bridge.....4s	4,000 00
Oct.	1, 1932,	Sewer Construction .....4s	500 00
Oct.	1, 1932,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1932,	Sewer .....3½s	500 00
Dec.	1, 1932,	Sewer Sep. System.....4s	500 00
Dec.	1, 1932,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1932,	Sewer Construction .....4½s	500 00
Dec.	1, 1932,	Playground .....4s	300 00
Jan.	1, 1933,	Sewer .....4s	500 00
Jan.	1, 1933,	School House .....4s	3,250 00
Feb.	1, 1933,	Bldg. (School House)....4s	500 00
Mar.	1, 1933,	Hospital .....4s	4,500 00
Mar.	1, 1933,	Building (Hospital) .....4s	2,000 00
Apr.	1, 1933,	Sewer Construction .....4½s	500 00
May	1, 1933,	Cambridge Bridge .....4s	2,000 00
May	1, 1933,	Cemetery .....4s	1,000 00
June	1, 1933,	Hospital .....4s	2,000 00
June	1, 1933,	Sewer Construction .....4s	500 00
June	1, 1933,	Sewer Sep. System.....4s	500 00
June	1, 1933,	Sewer .....3½s	500 00
June	1, 1933,	Building .....4¼s	1,000 00
June	1, 1933,	First St. Bridge.....4¼s	1,000 00
June	1, 1933,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1933,	Building .....4s	4,000 00
July	1, 1933,	Sewer .....4s	500 00
July	1, 1933,	Sewer Sep. System.....4s	500 00
July	1, 1933,	Playground .....4s	1,000 00
July	1, 1933,	Park .....4s	1,000 00
July	1, 1933,	School House .....4½s	3,250 00
July	1, 1933,	Street .....4½s	2,000 00

Amount carried forward..... \$2,420,950 00

Amount brought forward.....			\$2,420,950 00
July	1, 1933,	Bridge .....4s	400 00
July	1, 1933,	Sewer Sep. System.....4s	1,000 00
July	1, 1933,	Park .....4s	1,000 00
July	1, 1933,	School House .....4½s	5,000 00
July	1, 1933,	Building .....4½s	4,000 00
July	1, 1933,	Sewer .....4½s	1,000 00
July	15, 1933,	School House .....4¼s	4,000 00
July	15, 1933,	Sewer Construction .....4s	1,000 00
July	15, 1933,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1933,	Building .....4½s	1,000 00
Sept.	1, 1933,	Park .....3½s	1,000 00
Sept.	1, 1933,	Hospital .....4½s	3,000 00
Oct.	1, 1933,	Sewer Construction .....4½s	500 00
Oct.	1, 1933,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1933,	School House .....4½s	1,000 00
Oct.	1, 1933,	Hospital .....4½s	8,000 00
Oct.	1, 1933,	Sewer .....5s	1,000 00
Oct.	1, 1933,	Hospital .....5s	2,500 00
Oct.	1, 1933,	Sewer .....5s	1,000 00
Oct.	1, 1933,	Sewer .....5s	500 00
Oct.	1, 1933,	Building .....4½s	2,000 00
Oct.	1, 1933,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1933,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1933,	School House .....4s	13,000 00
Oct.	1, 1933,	First Street Bridge.....4s	4,000 00
Oct.	1, 1933,	Sewer Construction .....4s	500 00
Oct.	1, 1933,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1933,	Sewer .....3½s	500 00
Dec.	1, 1933,	Sewer Sep. System.....4s	500 00
Dec.	1, 1933,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1933,	Sewer Construction .....4½s	500 00
Dec.	1, 1933,	Playground .....4s	300 00
Jan.	1, 1934,	Sewer .....4s	500 00
Jan.	1, 1934,	School House .....4s	3,250 00
Feb.	1, 1934,	Bldg. (School House)....4s	500 00
Mar.	1, 1934,	Hospital .....4s	4,500 00
Mar.	1, 1934,	Building (Hospital) .....4s	2,000 00
Apr.	1, 1934,	Sewer Construction .....4½s	500 00
May	1, 1934,	Sewer .....3½s	500 00
May	1, 1934,	Cambridge Bridge .....4s	2,000 00
June	1, 1934,	Cemetery .....4s	1,000 00
June	1, 1934,	Hospital .....4s	2,000 00
June	1, 1934,	Sewer Construction .....4s	500 00
June	1, 1934,	Sewer Sep. System.....4s	500 00
June	1, 1934,	Building .....4¼s	1,000 00
June	1, 1934,	First St. Bridge.....4¼s	1,000 00
June	1, 1934,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1934,	Building .....4s	4,000 00
July	1, 1934,	Sewer .....4s	500 00
July	1, 1934,	Sewer Sep. System.....4s	500 00
July	1, 1934,	Playground .....4s	1,000 00
July	1, 1934,	Park .....4s	1,000 00
July	1, 1934,	Street .....4s	400 00
Amount carried forward.....			\$2,515,800 00

Amount carried forward.....			\$2,515,800 00
July	1, 1934,	Sewer Sep. System.....4s	1,000 00
July	1, 1934,	Park .....4s	1,000 00
July	1, 1934,	School House .....4½s	5,000 00
July	1, 1934,	Building .....4½s	4,000 00
July	1, 1934,	Sewer .....4½s	1,000 00
July	15, 1934,	School House .....4¼s	4,000 00
July	15, 1934,	Sewer Construction .....4s	1,000 00
July	15, 1934,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1934,	Building .....4½s	1,000 00
Sept.	1, 1934,	Park .....3½s	1,000 00
Sept.	1, 1934,	Hospital .....4½s	3,000 00
Oct.	1, 1934,	Sewer Construction .....4½s	500 00
Oct.	1, 1934,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1934,	School House .....4½s	1,000 00
Oct.	1, 1934,	Hospital .....4½s	8,000 00
Oct.	1, 1934,	Sewer .....5s	1,000 00
Oct.	1, 1934,	Hospital .....5s	2,500 00
Oct.	1, 1934,	Sewer .....5s	1,000 00
Oct.	1, 1934,	Sewer .....5s	500 00
Oct.	1, 1934,	Building .....4½s	2,000 00
Oct.	1, 1934,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1934,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1934,	School House .....4s	13,000 00
Oct.	1, 1934,	First Street Bridge.....4s	4,000 00
Oct.	1, 1934,	Sewer Construction ... ..4s	500 00
Oct.	1, 1934,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1934,	Sewer .....3½s	500 00
Dec.	1, 1934,	Sewer Sep. System.....4s	500 00
Dec.	1, 1934,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1934,	Sewer Construction .....4½s	500 00
Dec.	1, 1934,	Playground .....4s	300 00
Jan.	1, 1935,	Sewer .....4s	500 00
Jan.	1, 1935,	School House .....4s	3,250 00
Feb.	1, 1935,	Bldg. (School House)...4s	500 00
Mar.	1, 1935,	Hospital .....4s	4,500 00
Mar.	1, 1935,	Building (Hospital) .....4s	2,000 00
Apr.	1, 1935,	Sewer Construction .....4½s	500 00
May	1, 1935,	Sewer .....3½s	500 00
May	1, 1935,	Cambridge Bridge .....4s	2,000 00
June	1, 1935,	Cemetery .....4s	1,000 00
June	1, 1935,	Hospital .....4s	2,000 00
June	1, 1935,	Sewer Construction .....4s	500 00
June	1, 1935,	Sewer Sep. System.....4s	500 00
June	1, 1935,	Building .....4¼s	1,000 00
June	1, 1935,	First St. Bridge.....4¼s	1,000 00
June	1, 1935,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1935,	Building .....4s	4,000 00
July	1, 1935,	Sewer .....4s	500 00
July	1, 1935,	Sewer Sep. System.....4s	500 00
July	1, 1935,	Playground .....4s	1,000 00
July	1, 1935,	Park .....4s	1,000 00
July	1, 1935,	Sewer Sep. System.....4s	1,000 00
July	1, 1935,	Park .....4s	1,000 00
July	1, 1935,	School House .....4½s	5,000 00
Amount brought forward.....			\$2,616,850 00

Amount brought forward.....			\$2,616,850 00
July	1, 1935,	Building .....4½s	4,000 00
July	1, 1935,	Sewer .....4½s	1,000 00
July	15, 1935,	School House .....4¼s	4,000 00
July	15, 1935,	Sewer Construction .....4s	1,000 00
July	15, 1935,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1935,	Building .....4½s	1,000 00
Sept.	1, 1935,	Park .....3½s	1,000 00
Oct.	1, 1935,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1935,	Hospital .....4½s	8,000 00
Oct.	1, 1935,	Sewer .....5s	1,000 00
Oct.	1, 1935,	Hospital .....5s	2,500 00
Oct.	1, 1935,	Sewer .....5s	1,000 00
Oct.	1, 1935,	Sewer .....5s	500 00
Oct.	1, 1935,	Building .....4½s	2,000 00
Oct.	1, 1935,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1935,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1935,	School House .....4s	13,000 00
Oct.	1, 1935,	First Street Bridge.....4s	4,000 00
Oct.	1, 1935,	Sewer Construction .....4s	500 00
Oct.	1, 1935,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1935,	Sewer .....3½s	500 00
Dec.	1, 1935,	Sewer Sep. System.....4s	500 00
Dec.	1, 1935,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1935,	Sewer Construction .....4½s	500 00
Dec.	1, 1935,	Playground .....4s	300 00
Jan.	1, 1936,	Sewer .....4s	500 00
Feb.	1, 1936,	Bldg. (School House)....4s	500 00
Mar.	1, 1936,	Hospital .....4s	4,500 00
Mar.	1, 1936,	Building (Hospital) ....4s	2,000 00
Apr.	1, 1936,	Sewer Construction .....4½s	500 00
May	1, 1936,	Sewer .....3½s	500 00
May	1, 1936,	Cambridge Bridge .....4s	2,000 00
June	1, 1936,	Cemetery .....4s	1,000 00
June	1, 1936,	Hospital .....4s	2,000 00
June	1, 1936,	Sewer Construction .....4s	500 00
June	1, 1936,	Sewer Sep. System.....4s	500 00
June	1, 1936,	Building .....4¼s	1,000 00
June	1, 1936,	First St. Bridge.....4¼s	1,000 00
June	1, 1936,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1936,	Sewer .....4s	500 00
July	1, 1936,	Sewer Sep. System.....4s	500 00
July	1, 1936,	Park .....4s	1,000 00
July	1, 1936,	Sewer Sep. System.....4s	1,000 00
July	1, 1936,	Park .....4s	1,000 00
July	1, 1936,	School House .....4½s	5,000 00
July	1, 1936,	Building .....4½s	4,000 00
July	1, 1936,	Sewer .....4½s	1,000 00
July	15, 1936,	School House .....4¼s	4,000 00
July	15, 1936,	Sewer Construction .....4s	1,000 00
July	15, 1936,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1936,	Building .....4½s	1,000 00
Sept.	1, 1936,	Park .....4s	1,000 00
Oct.	1, 1936,	Sewer Construction4½s	1,500 00
Oct.	1, 1936,	Hospital4½s	8,000 00
Amount carried forward.....			\$2,720,650 00

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Amount brought forward.....			\$2,720,650 00
Oct.	1, 1936,	Sewer5s	1,000 00
Oct.	1, 1936,	Hospital5s	2,500 00
Oct.	1, 1936,	Sewer .....5s	1,000 00
Oct.	1, 1936,	Sewer .....5s	500 00
Oct.	1, 1936,	Building .....4½s	2,000 00
Oct.	1, 1936,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1936,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1936,	School House .....4s	13,000 00
Oct.	1, 1936,	First Street Bridge.....4s	4,000 00
Oct.	1, 1936,	Sewer Construction .....4s	500 00
Oct.	1, 1936,	Sewer Sep. System.....4s	1,000 00
Nov.	1, 1936,	Sewer .....3½s	500 00
Dec.	1, 1936,	Sewer Sep. System.....4s	500 00
Dec.	1, 1936,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1936,	Sewer Construction .....4½s	500 00
Dec.	1, 1936,	Playground .....4s	300 00
Jan.	1, 1937,	Sewer .....4s	500 00
Apr.	1, 1937,	Sewer Construction .....4½s	500 00
May	1, 1937,	Sewer .....3½s	500 00
May	1, 1937,	Cambridge Bridge .....4s	2,000 00
June	1, 1937,	Cemetery .....4s	1,000 00
June	1, 1937,	Hospital .....4s	2,000 00
June	1, 1937,	Sewer Construction .....4s	500 00
June	1, 1937,	Sewer Sep. System.....4s	500 00
June	1, 1937,	Building .....4¼s	1,000 00
June	1, 1937,	First St. Bridge.....4¼s	1,000 00
June	1, 1937,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1937,	Sewer .....4s	500 00
July	1, 1937,	Sewer Sep. System.....4s	500 00
July	1, 1937,	Park .....4s	1,000 00
July	1, 1937,	Sewer Sep. System.....4s	1,000 00
July	1, 1937,	Park .....4s	1,000 00
July	1, 1937,	School House .....4½s	5,000 00
July	1, 1937,	Building .....4½s	4,000 00
July	1, 1937,	Sewer .....4½s	1,000 00
July	1, 1937,	Building .....4½s	1,000 00
July	15, 1937,	School House .....4¼s	4,000 00
July	15, 1937,	Sewer Construction .....4s	1,000 00
July	15, 1937,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1937,	Building .....4½s	1,000 00
Sept.	1, 1937,	Park .....3½s	1,000 00
Oct.	1, 1937,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1937,	Hospital .....4½s	8,000 00
Oct.	1, 1937,	Sewer .....5s	1,000 00
Oct.	1, 1937,	Hospital .....5s	2,500 00
Oct.	1, 1937,	Sewer .....5s	1,000 00
Oct.	1, 1937,	Sewer .....5s	500 00
Oct.	1, 1937,	Building .....4½s	2,000 00
Oct.	1, 1937,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1937,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1937,	School House .....4s	13,000 00
Oct.	1, 1937,	First Street Bridge.....4s	4,000 00
Oct.	1, 1937,	Sewer Construction .....4s	500 00
Oct.	1, 1937,	Sewer Sep. System.....4s	1,000 00
Amount carried forward.....			\$2,824,950 00

Amount brought forward.....			\$2,824,950 00
Dec.	1, 1937,	Sewer Sep. System.....4s	500 00
Dec.	1, 1937,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1937,	Sewer Construction .....4½s	500 00
Jan.	1, 1938,	Sewer .....4s	500 00
May	1, 1938,	Sewer .....3½s	500 00
May	1, 1938,	Cambridge Bridge .....4s	2,000 00
June	1, 1938,	Hospital .....4s	2,000 00
June	1, 1938,	Sewer Construction .....4s	500 00
June	1, 1938,	Sewer Sep. System.....4s	500 00
June	1, 1938,	Building .....4¼s	1,000 00
June	1, 1938,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1938,	Sewer .....4s	500 00
July	1, 1938,	Sewer Sep. System.....4s	500 00
July	1, 1938,	Park .....4s	1,000 00
July	1, 1938,	Sewer Sep. System.....4s	1,000 00
July	1, 1938,	Park .....4s	1,000 00
July	1, 1938,	Sewer .....4½s	1,000 00
July	15, 1938,	School House .....4¼s	4,000 00
July	15, 1938,	Sewer Construction .....4s	1,000 00
July	15, 1938,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1938,	Park .....3½s	1,000 00
Oct.	1, 1938,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1938,	Hospital .....4½s	3,000 00
Oct.	1, 1938,	Sewer .....5s	1,000 00
Oct.	1, 1938,	Hospital .....5s	2,500 00
Oct.	1, 1938,	Sewer .....5s	1,000 00
Oct.	1, 1938,	Sewer .....5s	500 00
Oct.	1, 1938,	Building .....4½s	2,000 00
Oct.	1, 1938,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1938,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1938,	School House .....4s	13,000 00
Oct.	1, 1938,	First Street Bridge.....4s	4,000 00
Oct.	1, 1938,	Sewer Construction .....4s	500 00
Oct.	1, 1938,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1938,	Sewer Sep. System.....4s	500 00
Dec.	1, 1938,	Sewer Construction .....4½s	1,000 00
Dec.	1, 1938,	Sewer Construction .....4½s	500 00
Jan.	1, 1939,	Sewer .....4s	500 00
May	1, 1939,	Sewer .....3½s	500 00
May	1, 1939,	Cambridge Bridge .....4s	2,000 00
June	1, 1939,	Hospital .....4s	2,000 00
June	1, 1939,	Sewer Construction .....4s	500 00
June	1, 1939,	Sewer Sep. System.....4s	500 00
June	1, 1939,	Building .....4¼s	1,000 00
June	1, 1939,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1939,	Sewer .....4s	500 00
July	1, 1939,	Sewer Sep. System.....4s	500 00
July	1, 1939,	Park .....4s	1,000 00
July	1, 1939,	Sewer Sep. System.....4s	1,000 00
July	1, 1939,	Park .....4s	1,000 00
July	1, 1939,	Sewer .....4½s	1,000 00
July	15, 1939,	School House .....4¼s	4,000 00
July	15, 1939,	Sewer Construction .....4s	1,000 00
July	15, 1939,	Sewer Sep. System.....4s	1,000 00
Amount carried forward.....			\$2,902,450 00

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Amount brought forward..... \$2,902,450 00

Sept.	1, 1939,	Park	3½s	1,000	00
Oct.	1, 1939,	Sewer Construction	4½s	1,500	00
Oct.	1, 1939,	Hospital	4½s	3,000	00
Oct.	1, 1939,	Sewer	5s	1,000	00
Oct.	1, 1939,	Hospital	5s	2,500	00
Oct.	1, 1939,	Sewer	5s	1,000	00
Oct.	1, 1939,	Sewer	5s	500	00
Oct.	1, 1939,	Building	4½s	2,000	00
Oct.	1, 1939,	Sewer Construction	4½s	2,000	00
Oct.	1, 1939,	Sewer Sep. System.....	4½s	1,500	00
Oct.	1, 1939,	School House	4s	13,000	00
Oct.	1, 1939,	First Street Bridge.....	4s	4,000	00
Oct.	1, 1939,	Sewer Construction	4s	500	00
Oct.	1, 1939,	Sewer Sep. System.....	4s	1,000	00
Dec.	1, 1939,	Sewer Sep. System.....	4s	500	00
Dec.	1, 1939,	Sewer Construction	4½s	500	00
Jan.	1, 1940,	Sewer	4s	500	00
May	1, 1940,	Sewer	3½s	500	00
May	1, 1940,	Cambridge Bridge	4s	2,000	00
June	1, 1940,	Hospital	4s	2,000	00
June	1, 1940,	Sewer Construction	4s	500	00
June	1, 1940,	Sewer Sep. System.....	4s	500	00
June	1, 1940,	Building	4¼s	1,000	00
June	1, 1940,	Sewer Sep. System.....	4¼s	1,500	00
July	1, 1940,	Sewer	4s	500	00
July	1, 1940,	Sewer Sep. System.....	4s	500	00
July	1, 1940,	Park	4s	1,000	00
July	1, 1940,	Sewer Sep. System.....	4s	1,000	00
July	1, 1940,	Park	4s	1,000	00
July	1, 1940,	Sewer	4½s	1,000	00
July	15, 1940,	School House	4¼s	4,000	00
July	15, 1940,	Sewer Construction	4s	1,000	00
July	15, 1940,	Sewer Sep. System.....	4s	1,000	00
Sept.	1, 1940,	Park	3½s	1,000	00
Oct.	1, 1940,	Sewer Construction	4½s	1,500	00
Oct.	1, 1940,	Sewer	5s	1,000	00
Oct.	1, 1940,	Hospital	5s	2,500	00
Oct.	1, 1940,	Sewer	5s	1,000	00
Oct.	1, 1940,	Sewer	5s	500	00
Oct.	1, 1940,	Building	4½s	2,000	00
Oct.	1, 1940,	Sewer Construction	4½s	2,000	00
Oct.	1, 1940,	Sewer Sep. System.....	4½s	1,500	00
Oct.	1, 1940,	School House	4s	13,000	00
Oct.	1, 1940,	First Street Bridge.....	4s	4,000	00
Oct.	1, 1940,	Sewer Construction	4s	500	00
Oct.	1, 1940,	Sewer Sep. System.....	4s	1,000	00
Dec.	1, 1940,	Sewer Sep. System.....	4s	500	00
Dec.	1, 1940,	Sewer Construction	4½s	500	00
Jan.	1, 1941,	Sewer	4s	500	00
May	1, 1941,	Sewer	3½s	500	00
May	1, 1941,	Cambridge Bridge	4s	2,000	00
June	1, 1941,	Hospital	4s	2,000	00
June	1, 1941,	Sewer Construction	4s	500	00
June	1, 1941,	Sewer Sep. System.....	4s	500	00

Amount carried forward..... \$2,995,950 00

Amount brought forward.....			\$2,995,950 00
June	1, 1941,	Building .....4¼s	1,000 00
June	1, 1941,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1941,	Sewer .....4s	500 00
July	1, 1941,	Sewer Sep. System.....4s	500 00
July	1, 1941,	Sewer Sep. System.....4s	1,000 00
July	1, 1941,	Park .....3½s	1,000 00
July	1, 1941,	Sewer .....4½s	1,000 00
July	15, 1941,	School House .....4¼s	4,000 00
July	15, 1941,	Sewer Construction .....4s	1,000 00
July	15, 1941,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1941,	Park .....4s	1,000 00
Oct.	1, 1941,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1941,	Sewer .....5s	1,000 00
Oct.	1, 1941,	Sewer .....5s	500 00
Oct.	1, 1941,	Building .....4½s	2,000 00
Oct.	1, 1941,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1941,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1941,	School House .....4s	13,000 00
Oct.	1, 1941,	First Street Bridge.....4s	4,000 00
Oct.	1, 1941,	Sewer Construction .....4s	500 00
Oct.	1, 1941,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1941,	Sewer Sep. System.....4s	500 00
Dec.	1, 1941,	Sewer Construction .....4½s	500 00
Jan.	1, 1942,	Sewer .....4s	500 00
May	1, 1942,	Sewer .....3½s	500 00
May	1, 1942,	Cambridge Bridge .....4s	2,000 00
June	1, 1942,	Hospital .....4s	2,000 00
June	1, 1942,	Sewer Construction .....4s	500 00
June	1, 1942,	Sewer Sep. System.....4s	500 00
June	1, 1942,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1942,	Sewer .....4s	500 00
July	1, 1942,	Sewer Sep. System.....4s	500 00
July	1, 1942,	Sewer Sep. System.....4s	1,000 00
July	1, 1942,	Park .....4s	1,000 00
July	1, 1942,	Sewer .....4½s	1,500 00
July	15, 1942,	School House .....4¼s	4,000 00
July	15, 1942,	Sewer Construction .....4s	1,000 00
July	15, 1942,	Sewer Sep. System.....4s	1,000 00
Sept.	1, 1942,	Park .....3½s	1,000 00
Oct.	1, 1942,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1942,	Sewer .....5s	1,000 00
Oct.	1, 1942,	Sewer .....5s	500 00
Oct.	1, 1942,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1942,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1942,	First Street Bridge.....4s	4,000 00
Oct.	1, 1942,	Sewer Construction .....4s	500 00
Oct.	1, 1942,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1942,	Sewer Sep. System.....4s	500 00
Dec.	1, 1942,	Sewer Construction .....4½s	500 00
Jan.	1, 1943,	Sewer .....4s	500 00
May	1, 1943,	Sewer .....3½s	500 00
May	1, 1943,	Cambridge Bridge .....4s	2,000 00
June	1, 1943,	Sewer Construction .....4s	500 00
June	1, 1943,	Sewer Sep. System.....4s	500 00
Amount carried forward.....			\$3,073,450 00

Amount brought forward..... \$3,073,450 00

June	1, 1943,	Sewer Sep. System.....	4 ¼ s	1,500 00
July	1, 1943,	Sewer	4s	500 00
July	1, 1943,	Sewer Sep. System.....	4s	500 00
July	1, 1943,	Sewer Sep. System.....	4s	1,000 00
July	1, 1943,	Park	4s	1,000 00
July	15, 1943,	School House	4 ¼ s	4,000 00
July	15, 1943,	Sewer Construction	4s	1,000 00
July	15, 1943,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1943,	Sewer Construction	4 ½ s	1,000 00
Oct.	1, 1943,	Sewer	5s	1,000 00
Oct.	1, 1943,	Sewer	5s	500 00
Oct.	1, 1943,	Sewer Construction	4 ½ s	2,000 00
Oct.	1, 1943,	Sewer Sep. System....	4 ½ s	1,500 00
Oct.	1, 1943,	Sewer Construction	4s	500 00
Oct.	1, 1943,	Sewer Sep. System.....	3 ½ s	1,000 00
July	1, 1943,	Sewer	4 ½ s	1,500 00
Dec.	1, 1943,	Sewer Sep. System.....	4s	500 00
Dec.	1, 1943,	Sewer Construction	4 ½ s	500 00
Jan.	1, 1944,	Sewer	4s	500 00
May	1, 1944,	Sewer	3 ½ s	500 00
May	1, 1944,	Cambridge Bridge	4s	2,000 00
June	1, 1944,	Sewer Construction	4s	500 00
June	1, 1944,	Sewer Sep. System.....	4s	500 00
June	1, 1944,	Sewer Sep. System.....	4 ¼ s	1,500 00
July	1, 1944,	Sewer	4s	500 00
July	1, 1944,	Sewer Sep. System.....	4s	500 00
July	1, 1944,	Sewer Sep. System.....	4s	1,000 00
July	1, 1944,	Park	4s	1,000 00
July	1, 1944,	Sewer	4 ½ s	1,000 00
July	15, 1944,	Sewer Construction	4s	1,000 00
July	15, 1944,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1944,	Sewer Construction	4 ½ s	1,500 00
Oct.	1, 1944,	Sewer	5s	1,000 00
Oct.	1, 1944,	Sewer	5s	500 00
Oct.	1, 1944,	Sewer Construction	4 ½ s	2,000 00
Oct.	1, 1944,	Sewer Sep. System.....	4 ½ s	1,500 00
Oct.	1, 1944,	Sewer Construction	4s	500 00
Oct.	1, 1944,	Sewer Sep. System.....	4s	1,000 00
Dec.	1, 1944,	Sewer Sep. System.....	4s	500 00
Dec.	1, 1944,	Sewer Construction	4 ½ s	500 00
Jan.	1, 1945,	Sewer	4s	500 00
May	1, 1945,	Sewer	3 ½ s	500 00
May	1, 1945,	Cambridge Bridge	4s	2,000 00
June	1, 1945,	Sewer Construction	4s	500 00
June	1, 1945,	Sewer Sep. System.....	4s	500 00
June	1, 1945,	Sewer Sep. System.....	4 ¼ s	1,500 00
July	1, 1945,	Sewer	4s	500 00
July	1, 1945,	Sewer Sep. System.....	4s	500 00
July	1, 1945,	Sewer	4 ½ s	1,000 00
July	15, 1945,	Sewer Construction	4s	1,000 00
July	15, 1945,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1945,	Sewer Construction	4 ½ s	1,500 00
Oct.	1, 1945,	Sewer	5s	1,000 00

Amount carried forward..... \$3,126,450 00

Amount brought forward.....			\$3,126,450 00
Oct.	1, 1945,	Sewer .....5s	500 00
Oct.	1, 1945,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1945,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1945,	Sewer Construction .....4s	500 00
Oct.	1, 1945,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1945,	Sewer Construction .....4½s	500 00
Jan.	1, 1946,	Sewer .....4s	500 00
May	1, 1946,	Sewer .....3½s	500 00
June	1, 1946,	Sewer Construction .....4s	500 00
June	1, 1946,	Sewer Sep. System.....4s	500 00
June	1, 1946,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1946,	Sewer .....4½s	1,000 00
July	15, 1946,	Sewer Construction .....4s	1,000 00
July	15, 1946,	Sewer Sep. System.....4s	1,000 00
Oct.	1, 1946,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1946,	Sewer .....5s	1,000 00
Oct.	1, 1946,	Sewer .....5s	500 00
Oct.	1, 1946,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1946,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1946,	Sewer Construction .....4s	500 00
Oct.	1, 1946,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1946,	Sewer Construction .....4½s	500 00
June	1, 1947,	Sewer Construction .....4s	500 00
June	1, 1947,	Sewer Sep. System.....4s	500 00
June	1, 1947,	Sewer Sep. System.....4¼s	1,500 00
July	1, 1947,	Sewer .....4½s	1,000 00
July	15, 1947,	Sewer Construction .....4s	1,000 00
July	15, 1947,	Sewer Sep. System.....4s	1,000 00
Oct.	1, 1947,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1947,	Sewer .....5s	1,000 00
Oct.	1, 1947,	Sewer .....5s	500 00
Oct.	1, 1947,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1947,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1947,	Sewer Construction .....4s	500 00
Oct.	1, 1947,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1947,	Sewer Construction .....4½s	500 00
June	1, 1948,	Sewer Construction .....4s	500 00
June	1, 1948,	Sewer Sep. System.....4s	500 00
June	1, 1948,	Sewer Sep. System.....4¼s	1,500 00
July	15, 1948,	Sewer Construction .....4s	1,000 00
July	15, 1948,	Sewer Sep. System.....4s	1,000 00
Oct.	1, 1948,	Sewer Construction .....4½s	1,500 00
Oct.	1, 1948,	Sewer .....5s	1,000 00
Oct.	1, 1948,	Sewer .....5s	500 00
Oct.	1, 1948,	Sewer Construction .....4½s	2,000 00
Oct.	1, 1948,	Sewer Sep. System.....4½s	1,500 00
Oct.	1, 1948,	Sewer Construction .....4s	500 00
Oct.	1, 1948,	Sewer Sep. System.....4s	1,000 00
Dec.	1, 1948,	Sewer Construction .....4½s	500 00
June	1, 1949,	Sewer Construction .....4s	500 00
June	1, 1949,	Sewer Sep. System.....4s	500 00
June	1, 1949,	Sewer Sep. System.....4¼s	1,500 00
July	15, 1949,	Sewer Construction .....4s	1,000 00
July	15, 1949,	Sewer Sep. System.....4s	1,000 00
Amount carried forward.....			\$3,178,950 00

Amount brought forward..... \$3,178,950 00

Oct.	1, 1949,	Sewer Construction	4½s	1,500 00
Oct.	1, 1949,	Sewer	5s	1,000 00
Oct.	1, 1949,	Sewer	5s	500 00
Oct.	1, 1949,	Sewer Construction	4½s	2,000 00
Oct.	1, 1949,	Sewer Sep. System.....	4½s	1,500 00
Oct.	1, 1949,	Sewer Construction	4s	500 00
Oct.	1, 1949,	Sewer Sep. System.....	4s	1,000 00
June	1, 1950,	Sewer Construction	4s	500 00
June	1, 1950,	Sewer Sep. System.....	4s	500 00
June	1, 1950,	Sewer Sep. System.....	4¼s	1,500 00
July	15, 1950,	Sewer Construction	4s	1,000 00
July	15, 1950,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1950,	Sewer	5s	1,000 00
Oct.	1, 1950,	Sewer	5s	500 00
Oct.	1, 1950,	Sewer Construction	4½s	2,000 00
Oct.	1, 1950,	Sewer Sep. System.....	4½s	1,500 00
Oct.	1, 1950,	Sewer Construction	4s	500 00
Oct.	1, 1950,	Sewer Sep. System.....	4s	1,000 00
June	1, 1951,	Sewer Construction	4s	500 00
June	1, 1951,	Sewer Sep. System.....	4s	500 00
June	1, 1951,	Sewer Sep. System.....	4¼s	1,500 00
July	15, 1951,	Sewer Construction	4s	1,000 00
July	15, 1951,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1951,	Sewer Construction	4½s	2,000 00
Oct.	1, 1951,	Sewer Sep. System.....	4½s	1,500 00
Oct.	1, 1951,	Sewer Construction	4s	500 00
Oct.	1, 1951,	Sewer Sep. System.....	4s	1,000 00
June	1, 1952,	Sewer Construction	4s	500 00
June	1, 1952,	Sewer Sep. System.....	4s	500 00
June	1, 1952,	Sewer Sep. System.....	4¼s	1,500 00
July	15, 1952,	Sewer Construction	4s	1,000 00
July	15, 1952,	Sewer Sep. System.....	4s	1,000 00
Oct.	1, 1952,	Sewer Construction	4s	500 00
Oct.	1, 1952,	Sewer Sep. System.....	4s	1,000 00
June	1, 1953,	Sewer Sep. System.....	4¼s	1,500 00
July	15, 1953,	Sewer Construction	4s	1,000 00
July	15, 1953,	Sewer Sep. System.....	4s	1,000 00

Total\$3,216,950 00

The bonded City Debt matures as follows, viz.:

Provided for by Sinking Fund.

Apr.	1, 1924,	Building	3 ½ s	\$25,000 00
Apr.	1, 1924,	School House	3 ½ s	80,000 00
May	1, 1924,	School House	3 ½ s	5,000 00
Aug.	1, 1924,	Sewer	4 s	75,000 00
Sept.	1, 1924,	Street	3 ½ s	59,000 00
Nov.	1, 1924,	Building	3 ½ s	6,000 00
Nov.	1, 1924,	School House	3 ½ s	20,000 00
Nov.	1, 1924,	Street	3 ½ s	6,500 00
May	1, 1925,	Street	3 ½ s	84,000 00
May	1, 1925,	School House	3 ½ s	20,950 00
Aug.	1, 1925,	School House	3 ½ s	20,000 00
Oct.	1, 1925,	Sewer	4 s	60,000 00
Nov.	1, 1925,	Street	3 ½ s	1,500 00
May	1, 1926,	Street	4 s	100,000 00
Aug.	1, 1926,	Park	4 s	100,000 00
Aug.	1, 1926,	School House	4 s	47,000 00
Aug.	1, 1926,	Street	4 s	22,000 00
Oct.	1, 1926,	Park	4 s	40,000 00
Apr.	1, 1927,	Street	4 s	40,000 00
June	1, 1927,	Street	4 s	19,000 00
Sept.	1, 1927,	Street	4 s	25,000 00
Sept.	1, 1927,	Building	4 s	30,000 00
Nov.	1, 1927,	Street	4 s	10,000 00
Jan.	1, 1928,	Street	4 s	34,000 00
Aug.	1, 1928,	Street	4 s	42,000 00
Aug.	1, 1928,	Hospital	4 s	20,000 00
Dec.	1, 1928,	School House	3 ½ s	40,000 00
Mar.	1, 1929,	Street	3 ½ s	20,000 00
Nov.	1, 1929,	Sewer	3 ½ s	42,000 00
Jan.	1, 1930,	Street	3 ½ s	13,500 00
Jan.	1, 1930,	School House	3 ½ s	93,500 00
July	1, 1930,	Sewer	3 ½ s	100,000 00
July	1, 1930,	School House	4 s	120,000 00
July	1, 1930,	Cambridge Hospital	4 s	95,000 00
July	1, 1930,	Street	4 s	12,000 00
Mar.	1, 1931,	Street	3 ½ s	27,000 00
Mar.	1, 1931,	School House	3 ½ s	5,000 00
July	1, 1931,	Street	3 ½ s	8,000 00
July	1, 1931,	Street	3 ½ s	45,000 00
July	1, 1931,	School House	4 ½ s	3,250 00
Aug.	1, 1931,	Sewer	3 ½ s	110,000 00
Sept.	1, 1931,	Hospital	4 ½ s	3,000 00
Dec.	1, 1931,	Hospital	3 ½ s	4,000 00
Feb.	1, 1932,	Street	3 ½ s	6,250 00
Feb.	1, 1932,	School	3 ½ s	5,000 00
Mar.	1, 1932,	Hospital	3 ½ s	25,000 00
Mar.	1, 1932,	School House	3 ½ s	2,500 00
Aug.	1, 1932,	Metropolitan Park As..	3 ½ s	46,000 00
Sept.	1, 1932,	Street	3 ½ s	6,200 00
Nov.	1, 1932,	Sewer	3 ½ s	20,000 00
Apr.	1, 1933,	Sewer	3 ½ s	40,000 00

Amount carried forward.....

\$1,884,150 00

Amount brought forward \$1,884,150 00

July	1, 1933,	Street	4s	4,000	00
Aug.	1, 1933,	Street	4s	18,000	00
Oct.	1, 1933,	Sewer	3 1/2 s	20,000	00
May	1, 1934,	Sewer	3 1/2 s	112,000	00
May	1, 1934,	Camb. Bridge Special...	3 1/2 s	28,000	00
Nov.	1, 1934,	Sewer	3 1/2 s	5,000	00
May	1, 1935,	Sewer	3 1/2 s	90,000	00
Aug.	1, 1935,	Park	4s	100,000	00
Feb.	1, 1936,	Park	4s	100,000	00
May	1, 1936,	Sewer	4s	35,000	00
Sept.	1, 1936,	Sewer	4s	25,000	00
Apr.	1, 1937,	Sewer	4s	60,000	00
Sept.	1, 1937,	Park	3 1/2 s	100,000	00
Nov.	1, 1937,	Sewer	4s	10,000	00
Nov.	1, 1937,	Charles Riv. Impr'ment.	3 1/2 s	50,000	00
June	1, 1938,	Park	3 1/2 s	50,000	00
Aug.	1, 1938,	Park	3 1/2 s	50,000	00
Aug.	1, 1938,	Charles Riv. Impr'ment.	3 1/2 s	50,000	00
Aug.	1, 1938,	Sewer	4s	25,000	00
Dec.	1, 1938,	Sewer	4s	17,000	00
July	1, 1939,	Cambridge Bridge	3 1/2 s	50,000	00
July	1, 1939,	Sewer	3 1/2 s	2,000	00
Aug.	1, 1939,	Park	3 1/2 s	100,000	00
Jan.	1, 1940,	Sewer	3 1/2 s	46,000	00
May	1, 1940,	Sewer	4s	15,000	00
July	1, 1940,	Cambridge Bridge	3 1/2 s	100,000	00
July	1, 1940,	Park	3 1/2 s	50,000	00
July	1, 1940,	Sewer	4s	25,000	00
July	1, 1940,	Playground	4s	50,000	00
Nov.	1, 1940,	Park	3 1/2 s	50,000	00
Feb.	1, 1941,	Cambridge Bridge	3s	100,000	00
Mar.	1, 1941,	Sewer	3 1/2 s	10,000	00
July	1, 1941,	Playground	3 1/2 s	15,000	00
July	1, 1941,	Sewer	3 1/2 s	10,000	00
July	1, 1941,	Sewer	3 1/2 s	10,000	00
Oct.	1, 1941,	Park	3 1/2 s	100,000	00
Nov.	1, 1941,	Cambridge Bridge	3 1/2 s	100,000	00
Dec.	1, 1941,	Sewer Sep. System.....	3 1/2 s	10,000	00
Dec.	1, 1941,	Playground	3 1/2 s	30,000	00
July	1, 1942,	Park	3 1/2 s	48,000	00
Aug.	1, 1942,	Cambridge Bridge	3 1/2 s	100,000	00
Sept.	1, 1942,	Sewer	3 1/2 s	15,000	00
Jan.	1, 1943,	Cambridge Bridge	3 1/2 s	50,000	00
Feb.	1, 1943,	Sewer	3 1/2 s	10,000	00
Feb.	1, 1943,	Separate System	3 1/2 s	10,000	00
Apr.	1, 1943,	Cambridge Bridge	3 1/2 s	50,000	00
Apr.	1, 1943,	Park	3 1/2 s	50,000	00
July	1, 1943,	Sewer	4s	25,000	00
Aug.	1, 1943,	Cambridge Bridge	3 1/2 s	50,000	00
Jan.	1, 1944,	Cambridge Bridge	3 1/2 s	100,000	00
May	1, 1944,	Cambridge Bridge	3 1/2 s	200,000	00
Aug.	1, 1944,	Cambridge Bridge	3 1/2 s	100,000	00
Sept.	1, 1944,	Cambridge Bridge	3 1/2 s	50,000	00
Sept.	1, 1944,	Park	3 1/2 s	25,000	00

Amount carried forward..... \$4,589,150 00

Amount brought forward.....			\$4,589,150 00
Nov.	1, 1944,	Park .....3 1/2 s	6,000 00
Apr.	1, 1945,	Park .....3 1/2 s	5,000 00
May	1, 1945,	Park .....3 1/2 s	45,000 00
May	1, 1945,	Cambridge Bridge .....3 1/2 s	150,000 00
Aug.	1, 1945,	Park .....3 1/2 s	5,000 00
Dec.	1, 1945,	Cambridge Bridge .....3 1/2 s	100,000 00
Jan.	1, 1946,	Cambridge Bridge .....3 1/2 s	20,000 00
Aug.	1, 1946,	Cambridge Bridge .....4s	150,000 00
Aug.	1, 1946,	Commercial Ave. Bdge.3 1/2 s	50,000 00
Sept.	1, 1946,	Park .....3 1/2 s	25,000 00
Sept.	1, 1946,	Cambridge Bridge .....4s	5,000 00
Jan.	1, 1947,	Cambridge Bridge .....3 1/2 s	50,000 00
July	1, 1947,	Cambridge Bridge .....4s	40,000 00
Oct.	1, 1947,	Cambridge Bridge .....4s	15,000 00
Oct.	1, 1947,	Park .....4s	10,000 00
Aug.	1, 1948,	Cambridge Bridge .....4s	45,000 00
Aug.	1, 1948,	Park .....4s	30,000 00
Nov.	1, 1948,	Park .....4s	12,000 00
Jan.	1, 1950,	Park .....3 1/2 s	8,800 00
July	1, 1950,	Cambridge Bridge .....4s	20,000 00
Mar.	1, 1951,	Park .....3 1/2 s	17,000 00
July	1, 1951,	Park .....3 1/2 s	7,000 00
Dec.	1, 1951,	Park .....3 1/2 s	6,200 00
Dec.	1, 1951,	Bridge .....3 1/2 s	10,000 00
Mar.	1, 1952,	Bridge .....3 1/2 s	10,000 00
Total			\$5,431,150 00

The bonded Water Debt matures as follows:—

Provided for by Sinking Fund.

Apr.	1, 1924.....	4	.....	\$300,000 00
May	1, 1925.....	3½	.....	46,000 00
June	1, 1928.....	4	.....	20,000 00
Jan.	1, 1930.....	4	.....	5,000 00
Feb.	1, 1930.....	3½	.....	5,000 00
May	1, 1936.....	4	.....	280,000 00
June	1, 1937.....	4	.....	49,000 00
July	1, 1937.....	4	.....	25,000 00
Aug.	1, 1938.....	4	.....	17,000 00
May	1, 1941.....	3½	.....	16,500 00
Dec.	1, 1941.....	3½	.....	10,000 00

Total \$773,500 00

The bonded Water Debt matures as follows:—

Issued serially, provided for in the annual tax levy.

May	1, 1924.....	3½	.....	\$12,500 00
July	1, 1924.....	4	.....	2,000 00
July	1, 1924.....	4	.....	1,500 00
Sept.	1, 1924.....	4	.....	1,000 00
Oct.	1, 1924.....	4½	.....	11,000 00
Oct.	1, 1924.....	4	.....	13,000 00
Oct.	1, 1924.....	4	.....	14,000 00
Nov.	1, 1924.....	4	.....	500 00
Dec.	1, 1924.....	3½	.....	1,000 00
Feb.	1, 1925.....	4	.....	1,500 00
Mar.	1, 1925.....	4	.....	500 00
May	1, 1925.....	3½	.....	12,500 00
July	1, 1925.....	4	.....	2,000 00
July	1, 1925.....	4	.....	1,500 00
Sept.	1, 1925.....	3½	.....	1,000 00
Oct.	1, 1925.....	4½	.....	11,000 00
Oct.	1, 1925.....	4	.....	13,000 00
Oct.	1, 1925.....	4	.....	14,000 00
Nov.	1, 1925.....	4	.....	500 00
Dec.	1, 1925.....	3½	.....	1,000 00
Feb.	1, 1926.....	4	.....	1,500 00
Mar.	1, 1926.....	4	.....	500 00
July	1, 1926.....	4	.....	2,000 00
July	1, 1926.....	4	.....	1,500 00
Sept.	1, 1926.....	3½	.....	1,000 00
Oct.	1, 1926.....	4½	.....	11,000 00
Oct.	1, 1926.....	4	.....	13,000 00
Oct.	1, 1926.....	4	.....	14,000 00
Nov.	1, 1926.....	4	.....	500 00
Dec.	1, 1926.....	3½	.....	1,000 00
Feb.	1, 1927.....	4½	.....	1,500 00
Mar.	1, 1927.....	4	.....	500 00
July	1, 1927.....	4	.....	2,000 00
July	1, 1927.....	4	.....	1,500 00
Sept.	1, 1927.....	4	.....	1,000 00
Oct.	1, 1927.....	4½	.....	11,000 00
Oct.	1, 1927.....	4	.....	13,000 00
Oct.	1, 1927.....	4	.....	14,000 00
Nov.	1, 1927.....	4	.....	500 00
Dec.	1, 1927.....	3½	.....	1,000 00
Feb.	1, 1928.....	4	.....	1,500 00
Mar.	1, 1928.....	4	.....	500 00
July	1, 1928.....	4	.....	2,000 00
July	1, 1928.....	4	.....	1,500 00
Sept.	1, 1928.....	3½	.....	1,000 00
Oct.	1, 1928.....	4½	.....	11,000 00
Oct.	1, 1928.....	4	.....	14,000 00
Nov.	1, 1928.....	3½	.....	500 00
Dec.	1, 1928.....	3½	.....	1,000 00
Feb.	1, 1929.....	4	1,500 00
Mar.	1, 1929.....	4	500 00

Amount carried forward.....

\$242,000 00

CITY TREASURER

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Amount brought forward..... \$242,000 00

July	1, 1929.....	4	2,000	00
July	1, 1929.....	4	1,500	00
Sept.	1, 1929.....	3 1/2	1,000	00
Oct.	1, 1929.....	4 1/2	.....	11,000	00
Oct.	1, 1929.....	4	.....	14,000	00
Nov.	1, 1929.....	4	.....	500	00
Dec.	1, 1929.....	4	.....	1,000	00
Feb.	1, 1930.....	4	.....	1,500	00
Mar.	1, 1930.....	4	.....	500	00
July	1, 1930.....	4	.....	2,000	00
July	1, 1930.....	4	.....	1,500	00
Sept.	1, 1930.....	3 1/2	.....	1,000	00
Oct.	1, 1930.....	4 1/2	.....	11,000	00
Oct.	1, 1930.....	4	.....	14,000	00
Nov.	1, 1930.....	4	.....	500	00
Dec.	1, 1930.....	3 1/2	.....	1,000	00
Feb.	1, 1931.....	4	.....	500	00
Mar.	1, 1931.....	4	.....	500	00
July	1, 1931.....	4	.....	2,000	00
July	1, 1931.....	4	.....	1,500	00
Sept.	1, 1931.....	3	.....	1,000	00
Oct.	1, 1931.....	4 1/2	.....	11,000	00
Oct.	1, 1931.....	4	.....	14,000	00
Nov.	1, 1931.....	4	.....	500	00
Dec.	1, 1931.....	3 1/2	.....	1,000	00
Feb.	1, 1932.....	4	.....	500	00
Mar.	1, 1932.....	4	.....	500	00
July	1, 1932.....	4	.....	2,000	00
July	1, 1932.....	4	.....	1,500	00
Sept.	1, 1932.....	3 1/2	.....	1,000	00
Oct.	1, 1932.....	4 1/2	.....	11,000	00
Oct.	1, 1932.....	4	.....	14,000	00
Nov.	1, 1932.....	4	.....	500	00
Dec.	1, 1932.....	3 1/2	.....	1,000	00
Feb.	1, 1933.....	4	.....	500	00
Mar.	1, 1933.....	4	.....	500	00
July	1, 1933.....	4	.....	2,000	00
July	1, 1933.....	4	.....	1,500	00
Sept.	1, 1933.....	3 1/2	.....	1,000	00
Oct.	1, 1933.....	4 1/2	.....	11,000	00
Oct.	1, 1933.....	4	.....	14,000	00
Nov.	1, 1933.....	4	.....	500	00
Dec.	1, 1933.....	3 1/2	.....	1,000	00
July	1, 1934.....	4	.....	1,500	00
Sept.	1, 1934.....	3 1/2	.....	1,000	00
Oct.	1, 1934.....	4 1/2	.....	11,000	00
Oct.	1, 1934.....	4	.....	14,000	00
Dec.	1, 1934.....	3 1/2	.....	1,000	00
July	1, 1935.....	4	.....	1,500	00
Sept.	1, 1935.....	3 1/2	.....	1,000	00
Oct.	1, 1935.....	4 1/2	.....	11,000	00
Oct.	1, 1935.....	4	.....	14,000	00
Dec.	1, 1935.....	3 1/2	.....	1,000	00
July	1, 1936.....	4	.....	1,500	00

Amount carried forward..... \$460,500 00

Amount brought forward.....				\$460,500 00
Sept.	1, 1936.....	3 1/2	.....	1,000 00
Oct.	1, 1936.....	4 1/2	.....	11,000 00
Oct.	1, 1936.....	4	.....	14,000 00
July	1, 1937.....	4	.....	1,500 00
Sept.	1, 1937.....	3 1/2	.....	1,000 00
Oct.	1, 1937.....	4 1/2	.....	11,000 00
Oct.	1, 1937.....	4	.....	14,000 00
July	1, 1938.....	4	.....	1,500 00
Oct.	1, 1938.....	4 1/2	.....	11,000 00
July	1, 1939.....	4	.....	1,500 00
Oct.	1, 1939.....	4 1/2	.....	11,000 00
July	1, 1940.....	4	.....	1,500 00
Oct.	1, 1940.....	4 1/2	.....	11,000 00
July	1, 1941.....	4	.....	1,500 00
Oct.	1, 1941.....	4 1/2	.....	11,000 00
July	1, 1942.....	4	.....	1,500 00
Oct.	1, 1942.....	4 1/2	.....	11,000 00
July	1, 1943.....	4	.....	1,500 00
Oct.	1, 1943.....	4 1/2	.....	11,000 00
July	1, 1944.....	4	.....	1,500 00
Oct.	1, 1944.....	4 1/2	.....	11,000 00
Oct.	1, 1945.....	4 1/2	.....	11,000 00
Oct.	1, 1946.....	4 1/2	.....	11,000 00
Oct.	1, 1947.....	4 1/2	.....	11,000 00
Oct.	1, 1948.....	4 1/2	.....	11,000 00
Oct.	1, 1949.....	4 1/2	.....	11,000 00
Oct.	1, 1950.....	4 1/2	.....	11,000 00
Total				\$667,500 00

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS OF THE CITY OF CAMBRIDGE

To the Honorable, the City Council:

The Commissioners of the several sinking funds of the City herewith submit their annual report, covering the year ending March 31, 1924. Our report shows the condition of the sinking funds under two divisions; first, Municipal; second, Water.

The following is the condition of the Municipal Loan Funds:

Dr.

The amount of the funds March 31, 1923.....	\$3,421,720 75
Received from the City of Cambridge the annual bond require- ments as appropriated for the several loans.....	112,304 50
Received interest on invested funds.....	141,107 37
Received discount on bonds purchased.....	5.10
	\$3,675,137 72

Cr.

Paid to City Treasurer on account of Municipal debt maturing	\$551,800 00
Paid interest accrued on bonds purchased.....	27 33
Amount of funds March 31, 1924.....	3,123,310 39
	\$3,675,137 72

The following is the condition of the Water Loan Fund:

Dr.

The amount of the funds March 31, 1923.....	\$655,708 88
Received interest on invested funds.....	27,460 17
Received discount on bonds purchased.....	15 20
	\$683,184 25

Cr.

Paid interest accrued on bonds purchased.....	\$20 44
Amount of funds March 31, 1924.....	683,163 81
	\$683,184 25

MUNICIPAL FUND ACCOUNT

Bond Account

Amount of bonds in fund March 31, 1923.....	\$3,395,850 00
Amount of bonds purchased.....	103,000 00
	<hr/>
	\$3,498,850 00
Amount of bonds matured.....	420,900 00
	<hr/>
Amount of bonds in fund March 31, 1924.....	\$3,077,950 00

Cash Account

Dr.

Cash on hand March 31, 1923.....	\$25,870 75
Received from City of Cambridge Annual Re- quirements	112,304 50
Received interest on invested funds.....	141,107 37
Received from bonds matured.....	420,900 00
Received discount on bonds purchased.....	5 10
	<hr/>
	\$700,187 72

Cr.

Paid to City Treasurer to redeem Municipal Debt maturing during the year.....	\$551,800 00	
Paid for bonds purchased.....	103,000 00	
Paid for interest accrued on bonds purchased.....	27 33	
Balance on deposit in Harvard Trust Co.....	45,360 39	45,360 39
	<hr/>	
	\$700,187 72	

Total amount of funds March 31, 1924.....	\$3,123,310 39
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WATER LOAN FUND

Bond Account

Amount of bonds in fund March 31, 1923.....	\$637,000 00
Amount of bonds purchased	154,000 00
	<hr/>
	\$791,000 00
Amount of bonds matured.....	143,000 00
	<hr/>
Amount of bonds in fund March 31, 1924.....	\$648,000 00

Cash Account

Dr.

Cash on hand March 31, 1923.....	\$18,708 88
Received from matured bonds.....	143,000 00
Received interest on invested funds.....	27,460 17
Received discount on bonds purchased.....	15 20
	<hr/>
	\$189,184 25

SINKING FUND

345

Cr.

Paid for bonds purchased.....	\$154,000 00	
Paid interest accrued on bonds purchased.....	20 44	
Balance on deposit in Lechmere National Bank....	35,163 81	35,163 81
	<hr/>	
	\$189,184 25	
Amount of bonds in fund March 31, 1924.....		648,000 00
		<hr/>
Total amount of fund March 31, 1924.....		\$683,163 81

The committee appointed to audit the accounts of the Treasurer of the funds reports that his accounts are correct and properly vouched and his books are well kept. The bonds and coupons have been examined and checked up and found correct. The interest, bond and cash transactions of the Treasurer during the year have been carefully computed independently of his books and their correctness thereby proved.

FRANCIS J. CARNEY,

WM. H. REARDON, JR.,

Auditing Committee.

Municipal bonds to the amount of \$551,800.00 became due during the year ending March 31, 1924, and were paid from this fund. The total amount of municipal debt to be paid from the Sinking Fund now outstanding is \$5,416,900.00. Deducting the present amount of the Sinking Funds at *par value*, \$3,123,310.39, leaves the net amount of municipal debt chargeable to this fund March 31, 1924, \$2,293,289.61. There will be due to this fund from taxation November 30, 1924, the sum of \$101,601.50. During the coming financial year municipal bonds to the amount of \$276,500.00 will become payable to this fund.

No Water Bonds became due during the year. The total amount of water debt now outstanding is \$773,500.00. Deducting the present amount of the Sinking Funds at *par value*, \$683,163.81, leaves the net amount of the water debt chargeable to this fund March 31, 1924, \$90,336.19. During the coming year bonds amounting to \$300,000.00 will become payable from the fund. Owing to the large amount of surplus revenue paid to this

fund in recent years no further payments will be required to complete the payment of the balance of the debt for which the water fund was created.

All municipal debt either for municipal purposes or for water works must now be issued serially and this board has no duty to perform in regard to any debt now incurred for any purpose.

For convenience in keeping the accounts of the funds the first Commissioners of both the Municipal and Water Funds entered all bonds purchased at par value regardless of the price paid for them and entered all interest received at the gross amount without any deducting for the proportion of premium paid and this practice has continued to the present time| As a result the annual reports do not show the actual value of the funds at any time and do not show the actual income for any year. It has been the rule of the Commissioners to charge all premiums paid to expense and all discounts to income. All bonds have been held to maturity with almost no exceptions, so that the ultimate result has been the same as if the funds were valued each year at either cost price or market value.

It has also been a rule with the Commissioners to keep the funds in their charge closely invested rather than to carry large balances on deposit in the banks. This has been possible owing to the care given by the Commissioners to so invest their funds that sufficient sums shall mature at the dates required to pay maturing debt. That the Commissioners have been able to do so is shown by the fact that no bonds have been sold at any time to furnish funds to pay debt as it became due.

The change of the financial year from November 30th to March 31st has required that the payments to the Sinking Funds should be based upon the debt outstanding on the 30th of November, previous to the end of the present financial year instead of at the end of the financial year as formerly, except debt issued since December 1, 1907.

Owing to a recent decision of the Supreme Court the Commissioners now require collateral as security for all deposits exceeding \$15,000.00. This collateral is held in a box in the safe deposit vaults, which can be opened only by the use of two keys,

one of which is held by the Chairman of the Commissioners and the other by the bank.

Commissioners of the Sinking Funds of the City of Cambridge,

HENRY F. LEHAN,
Treasurer.

WM. J. HOPKINS,
Secretary.

GEORGE G. WRIGHT,
GUSTAVUS GOEPPER,
FRANCIS J. CARNEY,
DANIEL CRONIN,
ROBERT W. KNOWLES,
WILLIAM H. REARDON, JR.

The following are the investments belonging to the Municipal Loan Fund:

Cambridge City Bonds.....	Apr.	1924	4	\$212,000 00
“ “ “	Apr.	1924	3½	55,000 00
“ “ “	Sept.	1924	3½	20,000 00
“ “ “	Sept.	1924	4½	800 00
“ “ “	Nov.	1924	3½	31,500 00
“ “ “	Dec.	1924	4½	6,250 00
“ “ “	Mar.	1925	4	300 00
“ “ “	May	1925	3½	52,500 00
“ “ “	Aug.	1925	3½	20,000 00
“ “ “	Oct.	1925	4	7,500 00
“ “ “	Nov.	1925	3½	1,500 00
“ “ “	Dec.	1925	4½	6,250 00
“ “ “	Mar.	1926	4	300 00
“ “ “	May	1926	4	10,000 00
“ “ “	Oct.	1926	4	40,000 00
“ “ “	Nov.	1926	4	6,000 00
“ “ “	Dec.	1926	4½	6,250 00
“ “ “	Mar.	1927	4	300 00
“ “ “	Sept.	1927	4	5,000 00
“ “ “	Nov.	1927	4	10,000 00
“ “ “	Dec.	1927	4½	6,250 00
“ “ “	Mar.	1928	4	300 00
“ “ “	Dec.	1928	4½	6,250 00
“ “ “	Mar.	1929	4	300 00
“ “ “	Nov.	1929	3½	42,000 00
“ “ “	Mar.	1930	4	300 00
“ “ “	Mar.	1931	4	300 00
“ “ “	Aug.	1931	3½	55,000 00
“ “ “	Mar.	1932	4	300 00
“ “ “	Mar.	1933	4	300 00
“ “ “	Apr.	1933	3½	30,000 00
“ “ “	Mar.	1934	4	300 00
“ “ “	May	1934	3½	1,000 00
“ “ “	Mar.	1935	4	300 00
“ “ “	Mar.	1936	4	300 00
“ “ “	Nov.	1937	4	10,000 00
“ “ “	Oct.	1941	3½	25,000 00
“ “ “	Jan.	1943	3½	6,000 00
Revere City Bonds.....	Apr.	1924	3½	12,000 00
Quincy City Bonds.....	Apr.	1924	3½	2,800 00
Watertown Town Bonds.....	May	1924	4	3,000 00
Greenwich, Conn., Town Bonds.....	May	1924	4½	2,000 00
Malden City Bonds.....	May 2,	1924	4	9,000 00
Gardner City Bonds.....	July	1924	4	2,500 00
Fall River City Bonds.....	July	1924	3½	10,000 00
Akron, Ohio, City Bonds.....	Sept.	1924	5	30,000 00
Akron, Ohio, City Bonds.....	Sept.	1924	5½	50,000 00
Marlboro City Bonds.....	Sept.	1924	4	10,000 00
Ipswich Town Bonds.....	Oct.	1924	4	1,000 00
Wakefield Town Bonds.....	Nov.	1924	3½	4,000 00
Weymouth Town Bonds.....	Nov.	1924	4	5,000 00
Norwich, Conn., City Bonds.....	Jan.	1925	3½	26,000 00
Cleveland, Ohio, City Bonds.....	Feb.	1925	4½	13,000 00
Toledo, Ohio, City Bonds.....	Feb.	1925	4½	40,000 00

SINKING FUND

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Minneapolis, Minn., City Bonds.....	Mar.	1925	4½	25,000	00
Revere City Bonds.....	Apr.	1925	4	6,000	00
Winchester Town Bonds.....	May	1925	4	6,000	00
Cranston, R. I., City Bonds.....	Sept. 15, '25	1925	4½	30,000	00
Ipswich Town Bonds.....	Oct.	1925	4	1,000	00
Old Colony R. R. Co. Railroad Bonds.....	Dec.	1925	4	65,000	00
Minn., Salt Ste. Marie & Alt. R. R. Bonds....	Jan.	1926	4	30,000	00
Cleveland, Ohio, City Bonds.....	Feb.	1926	4½	13,000	00
Minneapolis City Bonds.....	Mar.	1926	4½	5,000	00
Revere City Bonds.....	Apr.	1926	4	6,000	00
Revere City Bonds.....	Apr.	1926	3½	2,000	00
Quincy City Bonds.....	May	1926	4	1,000	00
Providence, R. I., City Bonds.....	June	1926	4	5,000	00
Winchester Town Bonds.....	June	1926	4	5,000	00
Chicago & Mo. River R. R. Co. R. R. Bonds..	July	1926	5	6,000	00
Chi. & Northwestern R. R. Co. R. R. Bonds.	Aug. 15,	1926	4	50,000	00
Natick City Bonds.....	Oct.	1926	3½	5,000	00
Ipswich Town Bonds.....	Oct.	1926	4	1,000	00
Weymouth Town Bonds.....	Nov.	1926	4	3,000	00
Cleveland, Ohio, City Bonds.....	Dec.	1926	4½	25,000	00
Cleveland, Ohio, City Bonds.....	Feb.	1927	4½	13,000	00
Stamford, Conn., City Bonds.....	Feb.	1927	4	5,000	00
Fitchburg R. R. Co. Railroad Bonds.....	Mar.	1927	4	40,000	00
Revere City Bonds.....	Apr.	1927	4	6,000	00
Lynn City Bonds.....	Apr.	1927	4	10,000	00
Taunton City Bonds.....	June	1927	4	5,000	00
Arlington Town Bonds.....	Oct.	1927	4	5,000	00
Cleveland, Ohio, City Bonds.....	Dec.	1927	4½	25,000	00
Cleveland, Ohio, City Bonds.....	Feb.	1928	4½	13,000	00
Duluth, Minn., City Bonds.....	Apr.	1928	4	5,000	00
Lake Shore & Mich. South. R. R. R. 2Bds....	Sept.	1928	4	20,000	00
Toledo, Ohio, City Bonds.....	Sept.	1928	4½	33,000	00
Taunton City Bonds.....	Dec.	1928	4	3,000	00
Minneapolis, Minn., City Bonds.....	Jan.	1929	3½	20,000	00
Cleveland, Ohio, City Bonds.....	Feb.	1929	4½	13,000	00
Westerly, R. I., City Bonds.....	Feb.	1929	3½	5,000	00
American Tel & Tel. Co. Telephone Bonds..	July	1929	4	65,000	00
Fall River City Bonds.....	Nov.	1929	3½	75,000	00
Cleveland, Ohio, City Bonds.....	Feb.	1930	4½	13,000	00
Quincy City Bonds.....	Apr.	1930	3½	1,000	00
West End St. Railroad Co. Railroad Bonds..	July	1930	4½	50,000	00
Minneapolis, Minn., City Bonds.....	July	1930	4¾	5,000	00
Quincy City Bonds.....	Apr.	1931	3½	1,000	00
Minneapolis, Minn., City Bonds.....	July	1931	4¾	20,000	00
St. Paul, Minn., City Bonds.....	Nov.	1931	4¼	50,000	00
Quincy City Bonds.....	Apr.	1932	3½	1,000	00
Omaha, Neb., City Bonds.....	May	1932	4½	10,000	00
Brockton City Bonds.....	Nov.	1932	3½	10,000	00
Minneapolis, Minn., City Bonds.....	Jan.	1933	3½	5,000	00
New Britain, Conn., City Bonds.....	Aug.	1933	4	5,000	00
Tremont, Elkhorn & Mo. R. Val. R. R. Co. R. R. Bonds.....	Oct.	1933	6	5,000	00
Seattle, Wash., City Bonds.....	July	1934	4½	10,000	00
Augusta, Me., Water District Bonds.....	Aug.	1934	4	10,000	00
Waterbury, Conn., City Bonds.....	Jan.	1935	3½	10,000	00
Amount carried forward.....				\$1,752,950	00

SINKING FUND

Amount brought forward.....				\$1,752,950 00
Maine Central R. R. Co. Railroad Bonds.....	Dec.	1935	4½	100,000 00
Fall River City Bonds.....	Mar.	1936	4	15,000 00
				<hr/>
				\$1,867,950 00

United States Bonds

3rd Liberty Notes.....	Sep. 15, 1928	4¼	\$210,000 00
4th Liberty Notes.....	Oct. 15, 1928	4¼	745,000 00
2nd Liberty Notes.....	Nov. 15, 1942	4¼	75,000 00
Treasury Notes	Oct. 15, 1952	4¼	180,000 00
			<hr/>
Total			\$3,077,950 00

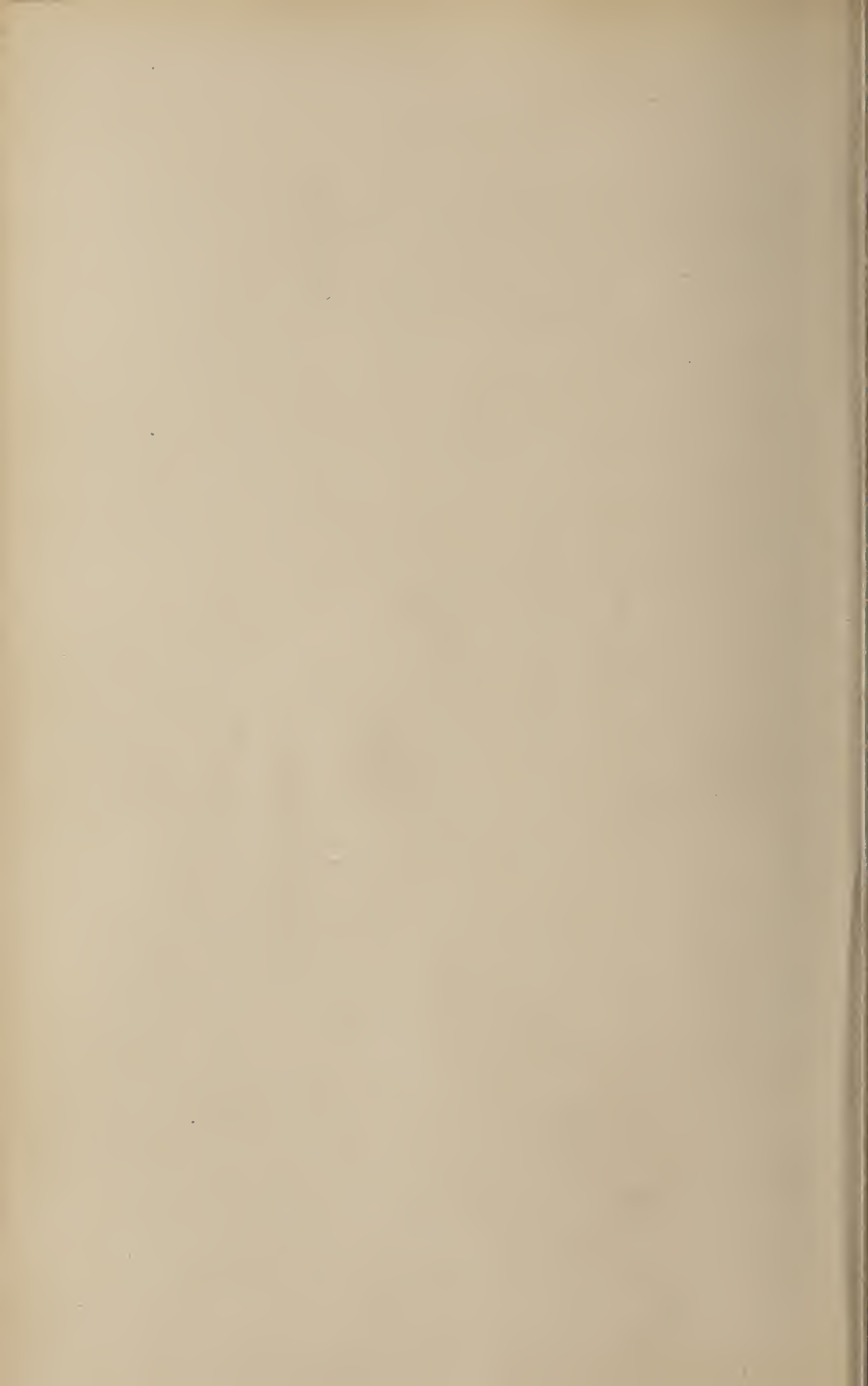
The following are the investments belonging to the Water Loan Fund:

Cambridge City Notes.....	Apr. 1, 1924		\$100,000 00
Cambridge City Bonds.....	Apr. 1, 1924	4	12,000 00
“ “ “	Apr. 1924	3½	23,000 00
“ “ “	May 1924	3½	17,500 00
“ “ “	Mar. 1925	4	500 00
“ “ “	Mar. 1926	4	500 00
“ “ “	May 1926	4	1,000 00
“ “ “	Mar. 1927	4	500 00
“ “ “	June 1927	4	1,000 00
“ “ “	Mar. 1928	4	500 00
“ “ “	Mar. 1929	4	500 00
“ “ “	Mar. 1930	4	500 00
“ “ “	Mar. 1931	4	500 00
“ “ “	Mar. 1932	4	500 00
“ “ “	Mar. 1933	4	500 00
“ “ “	Apr. 1933	3½	1,000 00
“ “ “	Nov. 1934	3½	4,000 00
“ “ “	Sept. 1937	3½	3,000 00
Quincy City Bonds.....	May 1924	4	1,000 00
Rochester, N. Y., City Bonds.....	July 1924	3½	35,000 00
Lewiston, Me., City Bonds.....	July 1924	4	23,000 00
Salem City Bonds.....	Sept. 1924	3½	3,000 00
Natick City Bonds.....	Oct. 1924	3½	5,000 00
Central Falls, R. I., City Bonds.....	Dec. 1924	4	5,000 00
Quincy City Bonds.....	May 1925	4	2,000 00
Salem City Bonds.....	Sept. 1925	3½	5,000 00
Leominster City Bonds.....	Oct. 1925	4	29,000 00
Central Falls, R. I., City Bonds.....	Dec. 1925	4	10,000 00
Quincy City Bonds.....	May 1926	4	3,000 00
Burlington, Vt., City Bonds.....	July 1926	4	10,000 00
Central Falls, R. I., City Bonds.....	Dec. 1926	4	10,000 00
Quincy City Bonds.....	May 1927	4	3,000 00
Attleborough City Bonds.....	July 1927	4	10,000 00
Quincy City Bonds.....	May 1928	4	3,000 00
Winchester Town Bonds.....	June 1928	4	6,000 00
Quincy City Bonds.....	May 1929	4	3,000 00
Quincy City Bonds.....	May 1930	4	3,000 00
Quincy City Bonds.....	May 1931	4	3,000 00
Quincy City Bonds.....	May 1932	4	1,000 00
Newton City Bonds.....	Aug. 1935	4	2,000 00
Newton City Bonds.....	July 1936	4	11,000 00

SINKING FUND

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Grafton Town Bonds.....	July	1937	3½	1,000	00
Old Colony R. R. Co. Railroad Bonds.....	Jan.	1938	4	25,000	00
Grafton Town Bonds.....	July	1938	4	2,000	00
Grafton Town Bonds.....	July	1939	4	2,000	00
3rd Liberty Loan U. S. Bonds.....	Sept.	1928	4¼	45,000	00
4th Liberty Loan U. S. Bonds.....	Oct.	1938	4¼	200,000	00
Treasury Notes U. S. Bonds.....	Oct.	1952	4¼	20,000	00
Total				<hr/> \$648,000 00	



REPORT OF THE COMMITTEE ON FINANCE

The annual report of the Committee on Finance is herewith submitted, it being for the financial year ending March 31, 1924.

Following is a summarized statement of the annual estimates as reported to the City Council at the beginning the year:

City Council Expenses.....	\$14,500 00
Clerk of Committees.....	7,262 00
Executive Department	15,757 00
Auditing Department	12,942 00
Treasury Department	35,733 00
Administration of Sinking Funds.....	650 00
Assessors' Department	25,183 00
License Commission	5,693 00
City Clerk's Department	15,569 00
City Messenger's Department	4,423 00
Postage and Stationery	500 00
Law Department	8,925 00
Election Commissioners	33,887 00
Engineering Department	17,239 00
Inspector of Buildings.....	18,423 00
Civil Service Registration	525 00
Municipal Buildings	44,718 00
Police Department	448,198 92
Fire Department	384,070 72
Electrical Department	43,614 00
Sealer of Weights and Measures	9,504 00
Forestry	21,084 00
Health Department	89,206 00
Tuberculosis Hospital	53,019 00
Inspector of Milk and Vinegar.....	3,657 00
School Dentist	6,058 00.
Inspector of Animals	2,700 00
Sewer Maintenance	37,040 00
Street Sanitary Division	249,600 00
Street Maintenance	307,475 00
Street Stable Account	106,290 00
Boston and Cambridge Bridges.....	30,038 36
Street Lighting	90,000 00
Municipal Hospital	126,233 00
City Home	44,672 50
Outside Aid	192,458 00
Soldiers' Benefits	73,925 00
School Department	1,419,123 12
Central Library and Branches	65,808 00
Park Maintenance	59,080 00
Playground Maintenance	35,000 00
Amount brought forward.....	\$4,159,783 62

Amount carried forward.....	\$4,159,783 62
Cemetery Department	52,752 00
City Debt Requirements	974,101 50
Haggerty School Baths	1,000 00
Roberts School Baths	2,000 00
Thorndike School Baths	2,500 00
Game Warden	50 00
Suppression of Flies and Mosquitoes	2,500 00
Militia	1,200 00
Pole and Conduit Commission	100 00
Public Celebrations	5,000 00
Memorial Day	2,500 00
Reserve Fund	100,000 00
Telephone Exchange	3,500 00
Damages, Persons and Property.....	10,000 00
G. A. R. Post 30	400 00
Post 299, R. E. Hoyt Headquarters.....	800 00
Pension Account	101,562 06
	<hr/>
	\$5,419,749 18
Estimated Revenue	1,328,000 00
	<hr/>
Leaving amount to be provided for.....	\$4,091,749 18

The Committee recommends that this amount be provided for by assessment upon the polls and estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for Municipal, School and Public Safety Departments for the year.

Orders were recommended in accordance with the foregoing estimates and the same were adopted by the City Council.

Charles H. Shea, Dennis F. McCarthy and Harold M. Bradbury were appointed a sub-committee to count the cash in the treasury at the close of business on March 31, 1924. They attended to the duty assigned to them and reported as follows:

March 31, 1924.

To the Committee on Finance:

GENTLEMEN:

The sub-committee appointed to examine the cash in the hands of the City Treasurer at the close of business on March 31, 1924, would respectfully report as follows:

Actual cash and business checks in City Treasurer's office amount to	\$10,086 51
Also certificates of deposit showing balances at the close of business to the credit of the City Treasurer	
1. Harvard Trust Company of Cambridge.....	87,196 53

2. Cambridge Trust Company of Cambridge.....	5,404 76
3. Central Trust Company of Cambridge.....	12,394 91
4. Guaranty Trust Company of Cambridge.....	19,912 23
5. Lechmere National Bank of Cambridge.....	4,227 12
6. Inman Trust Company of Cambridge.....	8,399 77
7. Manufacturers' National Bank of Cambridge.....	8,089 07
8. Highland Trust Company of Somerville.....	5,459 33
9. Citizens National Bank of Boston.....	4,760 54
10. National Shawmut Bank of Boston.....	53,152 40
11. Tremont Trust Company of Boston....	186,144 27
12. Prudential Trust Company of Boston.....	2,655 65
Total	\$407,883 09
Less outstanding checks	69,569 82
Cash on hand March 31, 1924.....	\$338,313 27

CHARLES H. SHEA,
(Signed) DENNIS F. McCARTHY,
HAROLD M. BRADBURY.

After the above examination by your Committee, March 31, 1924, additional entries belonging to the financial year ending were made as follows:

RECEIPTS

On account:		
Licenses	\$13 50	
Permits	216 25	
Court Fines	3,143 02	
City Treasurer's (Fees)	13 40	
City Clerk's (Fees)	74 00	
House Offal	23 75	
Street (General)	276 24	
Public Welfare	70 29	
Municipal Hospital	632 28	
School	20,631 70	
Library Fines, etc.	2,036 06	
Postage and Stationery.....	8 00	
First St. Bridge Construction.....	25 80	
Health	8,253 45	
Pensions	9,681 84	
Telephone Exchange	423 25	
Water Dept. Miscellaneous Charges.....	127 06	
Interest on Taxes	70 57	
Guaranty Trust Account.....	91 48	
Agency Accounts:		
Licenses, Hunting	1 85	
Licenses, Fishing	1 70	
Licenses, Dog	94 20	
		45,909 69
		\$384,222 96

EXPENDITURES

On account:

Draft No. 443	\$6,964 63	
Draft No. 444	2,651 21	
Draft No. 445	56,244 29	
Draft No. 446	25,127 88	
Draft No. 447	9,699 64	
	<hr/>	100,687 65

Which deducted from the foregoing total receipts shows a balance in the City Treasurer's hands as of March 31, 1924, of \$283,535 31

The sub-committee also examined the total cash receipts and expenditures as per City Treasurer's Ledger, and find the same to be as follows:

Cash balance, March 31, 1923.....	\$295,498 00
Cash receipts for year ending March 31, 1924.....	11,405,754 21
	<hr/>
Total cash for year ending March 31, 1924.....	\$11,701,252 21
Total cash expenditures for year ending March 31, 1924.....	11,417,716 90
Which deducted from total receipts shows a cash balance as	
of March 31, 1924.....	<hr/> \$283,535 31

The above statement of receipts and expenditures was verified by comparison with the City Auditor's Statement for the year ending March 31, 1924. The sub-committee also examined the securities belonging to the Cemetery Fund and Sarah E. Russell Fund, both held in trust by the City Treasurer, and find the same to be correct.

CHARLES H. SHEA,
DENNIS F. McCARTHY,
HAROLD M. BRADBURY,
Sub-Committee on Finance.

The foregoing report was transmitted for inclusion in the general report of the Committee hereinbefore given.

JAMES T. BARRETT,
HAROLD M. BRADBURY,
N. RUSSELL CAZMAY,
FRANCIS D. COADY,
DANIEL P. COLLINS,
JAMES E. CURRY,
ARTHUR DRINKWATER,
DANIEL P. LEAHY,
JAMES E. MAHLER,
DENNIS F. McCARTHY,
JOHN J. McCARTHY,
TIMOTHY F. MURPHY,
RALPH W. ROBART,
CHARLES H. SHEA,
HORACE A. SKILTON,

Committee on Finance.



THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF CORPORATIONS
AND TAXATION

DIVISION OF ACCOUNTS

REPORT OF AN AUDIT OF THE ACCOUNTS OF THE
CITY OF CAMBRIDGE

From April 1, 1922, to July 7, 1923

Made in accordance with the Provisions of Section 40,
Chapter 44, General Laws.

March 26, 1924.

*To the Honorable Edward W. Quinn, Mayor, and the City
Council, Cambridge, Massachusetts:*

GENTLEMEN:

I submit herewith my report of an audit of the accounts of the City of Cambridge for the period from April 1, 1922, to July 7, 1923, made in accordance with the provisions of Section 40 of Chapter 44 of the General Laws. This report is in the form of a report made to me by Mr. Edward H. Fenton, Chief Examiner of this Division, who was placed in charge of the work.

Very truly yours,

THEODORE N. WADDELL,
Director of Accounts.

Mr. Theodore N. Waddell, Director of Accounts, Department of Corporations and Taxation, State House, Boston.

SIR:

As directed by you, I have made an audit of the books and accounts of the city of Cambridge for the period from April 1, 1922, to July 7, 1923, and submit the following report thereon:

The financial transactions of the city as recorded on the books of the several departments receiving or disbursing money for the city, or committing bills for collection, were examined and reconciled with the books and records in the city auditor's office.

The balance sheet appended to this report shows the financial condition of the city on April 1, 1923, to be such as to demand careful consideration from the Mayor and the City Council.

From this sheet it appears that there is surplus revenue amounting to \$99,710.63, but there are funds tied up in the Tremont Trust Company and the Prudential Trust Company aggregating \$222,050.11, from which the loss to the city will undoubtedly be far in excess of the surplus revenue. There are deficits in the overlay accounts of 1916 and prior years aggregating \$131,992.09 and deficits in the overlay accounts for the years 1917, 1919, 1920 and 1921 aggregating \$7,592.42, in addition to which there are many thousands of dollars in uncollected taxes for the years 1916 to 1922 which are undoubtedly uncollectible at this late date and for which there is insufficient overlay in any of these accounts. It is therefore apparent that, although the accounts show a book surplus of \$99,710.63, there is a prospective deficit of revenue in excess of \$300,000, a condition of affairs which, as stated, requires careful consideration.

Auditor.—The books and accounts in the city auditor's office were examined and checked in detail. The recorded receipts were checked with the treasurer's daily reports of receipts and with the treasurer's books; the disbursements were checked with the warrants authorizing such payments and with the treasurer's records, the original vouchers and pay-rolls being checked to the warrants in sufficient numbers to satisfy me as to the accuracy of the work. The general and appropriation ledgers

were checked, the footings were verified, and the postings checked with the books and records of original entries.

The appropriations, transfers and loan orders were checked with the city clerk's records of Council orders and found to have been correctly entered.

The auditor's records of departmental accounts receivable have been kept in considerable detail and were of great value in reconciling the accounts of the several departments with those of the collector. The accounts of the several departments committing bills for collection were checked and the necessary adjustments made to bring these and the collector's records of departmental accounts receivable into agreement with those in the auditor's office.

The ledgers were analyzed and a balance sheet was prepared showing the financial condition of the city as of April 1, 1923.

Treasurer and Collector.—The books and accounts of the treasurer and collector, as treasurer, were examined and checked in detail. The recorded receipts were checked with the records in the several departments collecting money for the city and with the other sources from which money was paid into the city treasury. The recorded payments were checked with the warrants authorizing the treasurer to disburse city funds and with the auditor's books.

The cash on hand was verified September 29, 1923, by an actual count, and the bank accounts were reconciled with the statements furnished by the several banks. In reconciling the cash in the office September 29, 1923, it was noted that there were included as cash on hand nineteen checks from various persons, aggregating \$507.55, which had been returned by the banks for lack of funds or other reasons, these checks bearing dates ranging from September 21, 1920, to January 17, 1923. Immediate attention should be given to collecting the amounts due the city on these checks.

In my report of a previous audit of the treasurer's accounts, under date of October 30, 1917, attention was called to the methods of recording bank transactions, and at that time a check register was installed which, if it had been properly carried out, would have insured a correct reconciliation of the several bank

accounts. Unfortunately, however, this record has not been kept up as originally intended, with the result that the bank accounts have not been properly reconciled, and numerous errors have crept into the accounts. When a change was made in cashiers in the treasurer's office, a cash overage of some \$1,400 had accumulated, which I believe to be due chiefly to the failure to properly reconcile the bank accounts monthly.

The tables appended reconciling the cash show the following unlocated differences: In the Harvard Trust Company, after making allowance for the various errors as shown in the table, the amount on hand September 29, 1923, was \$204.70 less than the amount called for by the check book; and in the Guaranty Trust Company the bank account was \$107.53 more than the amount called for by the check book. These differences have been adjusted through the cash variation account set up on the books at the time the change was made in cashiers.

The treasurer's office has the following special accounts which do not form a part of the general accounts of the city: Paymaster's Account; Special Account-School Deposits; Street Deposits; and Water Deposits.

The paymaster's account is in the Harvard Trust Company, the paymaster depositing the pay of certain employees in this account and issuing checks against the same to pay employees who prefer to be paid by check. This account was opened in 1920 and interest on deposits was allowed in 1920 amounting to \$106.43, which should be transferred to the General Account as income of the city.

The Special Account-School deposits is in the Guaranty Trust Company and represents deposits by students of the evening schools as a guarantee of attendance; this also has accumulated interest on deposits aggregating \$27.81, which should be turned in to the city treasury as income.

The Street and Water deposits are kept in the treasurer's vault and represent deposits by persons as a guarantee of payment for private work performed by the department. These accounts were checked with such records as were available, and it was found that the cash on hand in the Street deposit account was \$170 in excess of the unadjusted deposits as listed, and the

cash on hand in the Water deposit account was \$35 in excess of the unadjusted deposits as listed. I would recommend that a more detailed account be kept of these deposits and that an effort be made to adjust the accounts, as some of them date back to 1914.

There is also on deposit in the Harvard Trust Company a tailings account aggregating \$5,327.05. This account is also carried on the city auditor's books and represents uncalled-for items on the Mayor's drafts. The interest on deposits credited to this account since April 1, 1917, aggregates \$779.49, which should be turned in to the city treasury as income; and as these accounts are of a number of years' standing and will undoubtedly never be called for at this late date, it is recommended that the funds be transferred to the general account as funds of the city.

The books and accounts of the treasurer and collector, as collector, were examined and checked in detail. The outstanding accounts as shown by the books were listed, the abatements were checked with the assessors' records of abatements granted, and the recorded collections were checked with the treasurer's books.

Unlocated differences were found in practically every account. These, I feel, are due to clerical errors in crediting collections to the wrong account, and an absolute reconciliation of the various levies was practically impossible. In checking the accounts, errors of about every nature were discovered, as shown by the summary tables of the tax accounts appended to this report.

Verification notices were sent to about one thousand delinquent taxpayers whose names were selected at random from those appearing on the books as owing money to the city. There were nine replies received claiming that payment had been made on specific dates. These were investigated and it was found that in three cases duplicate assessments had been made; in two cases the amount paid had been properly entered on the cash book but, through clerical error, had not been posted to the commitment book; in two cases payment had been made on the dates stated, but for a previous year's tax; in one case, through clerical error, the amount paid was credited to the wrong account; and in one case payment had been made to a constable, who made his settle-

ment after the date of our notice. Besides these, eighteen replies were received from persons who claimed that payment had been made but who failed to produce evidence of such payment on request; many replies were received giving various reasons why the accounts were incorrect; many were received stating that the accounts were correct; and some were returned by the postal authorities, undelivered. As the remainder made no reply, it is fair to assume that their accounts are correct.

In checking the abatements granted by the assessors, numerous duplicate and over-abatements were disclosed. While this class of errors is not primarily chargeable against the collector's office, nevertheless, when a list of abatements is presented to the collector's office which contains duplicate items or items which were contained in some previous lists, these errors should be discovered when the abatements are posted to the commitment books, and the matter should be called to the attention of the assessors, the list being corrected before the errors are allowed to creep into the auditor's and the treasurer's ledger accounts.

The departmental accounts receivable accounts were examined and checked, the outstanding accounts were listed, necessary adjustments were made, and the accounts were reconciled with the several departmental records and with the auditor's books.

The tax titles held by the city aggregate a considerable amount, but the records pertaining to the tax title accounts are inadequate and incomplete. The actual value of these titles is always a serious question, owing to the fact that on old titles the opportunity for declaring them invalid on account of technicalities is very great. The validity of these titles should be determined at once, so that those proved defective can be charged off the books, a new and positive assessment made, and the revenue due the city collected or the property taken under the present law, which is reasonably clear and easily enforced.

Many of the tax, tax title and departmental accounts receivable accounts extend back for a number of years, and their collection was no doubt anticipated and the amount represented by them actually spent in the annual appropriations. A more

determined effort should be made to clear the books of these accounts. It is possible that legal steps will have to be taken in this connection, and if so, the law department should take whatever means seems necessary, since, at the present time, a considerable amount of revenue is being lost to the city annually by the failure to collect promptly amounts due the city.

The difficulties encountered in reconciling the accounts in the office of the treasurer and collector, due to the many clerical errors, consumed a large part of the time required to make the audit and thereby materially added to the cost of the work. The condition of the accounts, it is believed, is due largely to the lack of a centralized responsibility for the work of the office employees. I would therefore recommend that an assistant treasurer and collector, or chief clerk, be appointed, whose duty it would be to organize the office force, to plan and assign the work to be done, and who should be given authority to maintain discipline in the office.

The surety bond given by the treasurer and collector for the faithful performance of his duties in the penal sum of \$40,000 was examined, and while the bond for the year June 20, 1922 to June 20, 1923, is in proper form, the bond for the year June 20, 1923 to June 20, 1924 is in the form of a renewal certificate and does not properly protect the city, as it is merely an extension of the previous bond and is not in accordance with the provisions of Section 13, Chapter 60, General Laws.

Appended to this report are tables showing a reconciliation of the treasurer's cash and summaries of the tax, assessment and departmental accounts receivable accounts.

Assessors' Department.—The abatements granted by the assessors, as recorded on their books, were checked with the abatements shown by the collector's books, and with the assessors' monthly returns to the auditor of abatements granted, a number of duplicate and over-abatements being noted. The assessors' return to the auditor of abatements granted on account of the poll taxes of 1920, for the month of February, 1921, did not include the abatement of 669 polls at \$5 each, although the lists of these abatements had been given to the collector's office and were included in the assessors' records. This omission

necessitated the checking in detail of all abatements granted on account of the 1920 poll commitment.

The assessors' warrant to the collector for the collection of polls for the year 1919 was \$410 in excess of the aggregate of the detailed list submitted for collection, the warrant for the commitment of polls for 1920 was \$480 in excess of the aggregate of the detailed list, and the detailed list for 1922 was \$40 in excess of the warrant.

The abatements granted on account of the several levies examined have been greatly in excess of the overlay provided for this purpose, with the exception of the years 1918 and 1922; and the balance in the overlay accounts of these years will not be sufficient to meet the abatements which will undoubtedly be made on account of these levies. The overlay deficits on April 1, 1923, aggregated \$139,584.51, which must be raised by the assessors in accordance with the provisions of Section 23, Chapter 59, General Laws, as there is insufficient revenue from other sources to provide for this deficit.

License Commissioner.—The records of licenses issued were checked with the recorded receipts on this account, and the payments to the treasurer were verified by a comparison with the treasurer's and the auditor's books.

The cash on hand was verified by an actual count, it being found that there is on hand \$144.25 which is unaccounted for, but undoubtedly due to uncalled-for licenses in prior years.

Appended to this report is a table showing a summary of the accounts.

City Clerk.—The records of Council orders appropriating money and authorizing transfers and the incurrence of debt were inspected and checked with the entries on the auditor's books.

The records of receipts on account of hunting and fishing and dog licenses, marriage intentions and recording fees were examined, and the recorded payments were verified by a comparison with the auditor's and the treasurer's books.

Tables showing summaries of the accounts are appended to this report.

Superintendent of Buildings.—This department issues elevator licenses and building, gas and plumbing permits; it also receives money for the sale of old paper, etc., and from the rent of land and buildings. The receipts, as recorded on the books, were checked and reconciled with the payments to the treasurer as shown by the treasurer's and the auditor's books.

Payments are made to the treasurer weekly, and it is recommended that the records show the period of collections which each payment to the treasurer covers, in order that the accounts may be more readily reconciled.

Electrical Department.—The records of permits issued for electrical work were examined and recorded receipts were checked and verified by a comparison with the treasurer's and the auditor's books.

A table showing a summary of the accounts is appended to this report.

Sealer of Weights and Measures Department.—The records of charges for sealing and adjusting weights and measures were examined and checked. The recorded receipts were checked to the charges, and payments to the treasurer were verified by a comparison with the treasurer's and the auditor's books.

Appended to this report is a table showing a summary of the accounts.

Health Department.—The records of receipts on account of milk, oleo, manicure and massage licenses were examined, and payments to the treasurer were verified by a comparison with the auditor's and the treasurer's books.

The records of outstanding accounts for hospital charges, etc., were checked and reconciled with the records in the auditor's and the collector's office.

Summary tables of the accounts are appended to this report.

Sewer Department.—The records of charges for the use of equipment, etc., were checked and reconciled with the auditor's and the collector's records, and the cash collections were verified by a comparison with the treasurer's books.

Street Department.—The records of collections on account of house offal were checked with the card records, the payments to the treasurer were verified by a comparison with the treasurer's books, and the outstanding accounts were reconciled with the auditor's books.

Appended to this report are summary tables of the accounts.

Charity Department.—The records of cash receipts from the City Home were checked and verified by a comparison with the treasurer's books. The outstanding accounts were checked and reconciled with the auditor's records.

The outstanding accounts aggregate a considerable amount, some of them being of long standing. They should be collected, if collectible; if not collectible, they should be abated.

Summary tables of the accounts are appended to this report.

Municipal Hospital.—The records of charges at the hospital were examined and reconciled with the auditor's and the collector's books.

The outstanding accounts aggregate a considerable sum; many of them are long past due and should be collected.

The records of cash collections were verified by a comparison with the treasurer's books.

Tables showing a summary of the accounts are appended to this report.

School Department.—The records of receipts on account of school lunches, etc., were examined, and the recorded payments to the treasurer were verified by a comparison with the treasurer's books, the outstanding accounts being reconciled with the auditor's records.

Summary tables of the accounts are appended to this report.

Library Department.—The records of receipts on account of fines, etc., were examined and checked, and the recorded payments to the treasurer were verified by a comparison with the treasurer's books.

Water Department.—The receipts of this department are collected in the treasurer's office. The recorded collections, as

shown by the collector's cash book, were footed and compared with the department records.

The system, installed in 1917, of having the charges for water rates, etc., committed to the collector has been discontinued, and the outstanding accounts could not be reconciled without listing the charges and payments from the individual cards in the department office. This would have materially added to the expense of the audit, and did not seem warranted.

Cemetery Department.—The records of charges and cash collections were examined and checked. The recorded payments to the treasurer were verified by a comparison with the treasurer's books.

The outstanding accounts were checked and reconciled with the auditor's and the collector's records. There are a large number of outstanding accounts, some dating back a number of years, and it is recommended that immediate steps be taken to collect these old accounts.

Summary tables of the accounts are appended to this report.

Sinking Funds.—The books and accounts of the treasurer of the sinking fund commissioners were examined and checked. The securities representing the investments of the funds were personally examined, the income was proved, the disbursements were checked with original vouchers on file, and the cash in the banks was verified by bank statements.

The tables showing summaries of the funds, together with the transactions, are appended to this report.

Trust Funds.—The securities held as investments of the several trust funds in the custody of the city treasurer and the library trustees were personally examined. The income was proved and the receipts and disbursements were examined, being found to be as recorded on the books.

Tables showing a summary of the funds, together with the transactions, are appended to this report.

In addition to the departments and accounts mentioned, the accounts of all other departments collecting money for the city or committing bills for collection were examined and reconciled with the auditor's and the treasurer's books.

For the co-operation and courtesy extended by every departmental official during the process of the audit, I wish, on behalf of my assistants and myself, to express my appreciation.

Respectfully submitted,

EDW. H. FENTON,

Chief Examiner.

CITY OF CAMBRIDGE

Balance Sheet—April 1, 1923

REVENUE ACCOUNTS

ASSETS

Cash:

In closed banks:

Tremont Trust Company	\$218,993 25	
Prudential Trust Company.....	3,056 86	
	<hr/>	\$222,050 11

Accounts Receivable:

Taxes:

Levy of 1913.....	\$334 60	
Levy of 1914.....	506 62	
Levy of 1915.....	655 60	
Levy of 1916.....	31,308 05	
Levy of 1917.....	31,028 19	
Levy of 1918.....	36,050 59	
Levy of 1919.....	37,981 49	
Levy of 1920.....	57,668 11	
Levy of 1921.....	280,010 10	
Levy of 1922.....	694,408 52	
	<hr/>	1,169,951 87

Special Assessments:

Street Sprinkling 1915.....	\$14 00	
Street Sprinkling 1916.....	30 39	
Street Sprinkling 1917.....	128 40	
	<hr/>	172 79
Moth 1915	\$7 91	
Moth 1916	6 08	
Moth 1917	12 01	
Moth 1918	6 47	
Moth 1919	6 73	
Moth 1920	18 25	
Moth 1921	118 53	
Moth 1922	178 67	
	<hr/>	354 65

Apportioned Sewers 1922.....	\$244 97	
Unapportioned Sewers	391 67	
Committed Interest:		
Apportioned Sewers	57 54	
		694 18
Apportioned Edgestone and Sidewalk 1915....	16 33	
Apportioned Edgestone and Sidewalk 1916....	23 92	
Apportioned Edgestone and Sidewalk 1921....	92 98	
Apportioned Edgestone and Sidewalk.....	388 16	
Unapportioned Edgestone and Sidewalk.....	8,706 23	
Committed Interest—		
Apportioned Edgestone and Sidewalk.....	48 56	
		9,276 18
Departmental:		
Health	\$21,209 20	
Sewer Maintenance	989 93	
Street	4,186 75	
Overseers of Poor	43,642 14	
Municipal Hospital	44,371 94	
School	5,591 55	
Park	662 47	
Cemetery	6,205 55	
		126,859 53
Public Service Enterprises:		
Annual Water Rates	\$8,083 30	
Metered Water Rates	12,409 88	
Miscellaneous, Water Charges.....	7,764 16	
		28,257 34
Tax Liens held by city.....		90,586 10
Tax and Assessment variations.....		225 94
Overdrawn Accounts:		
Revenue 1922	\$3,957 56	
American Legion Post 27.....	1,784 80	
Purchase of land, Cedar St.....	223 00	
Overlay 1915 and prior.....	131,992 09	
Overlay 1917	50	
Overlay 1919	11 12	
Overlay 1920	4,065 82	
Overlay 1921	3,514 98	
		145,549 87
		\$1,793,978 56

LIABILITIES

Non-Revenue Cash used for Revenue purposes.....	\$314,440 23
Cash variations	478 97
Accounts Payable:	
Bonds due and unpaid.....	17,250 00
Temporary Loans:	
In anticipation of revenue.....	800,000 00
Premium on loans.....	20,512 80
Sale of land	26,047 00
Unexpended balances:	
Appropriations	\$3,957 56
School Department	75,111 59
Water Department—Surplus	249,658 19
	328,727 34

Overlay—Reserved for Abatements:

Levy of 1918	\$13,126 53	
Levy of 1922	7,960 99	
	<hr/>	21,087 52

Revenue:

Sewer Assessment	\$692 46	
Edgestone and Sidewalk Assessment....	9,276 18	
Departmental	127,498 09	
Water	28,257 34	
	<hr/>	165,724 07

Surplus..... \$106,960 63

Less serial bonds due and unpaid.....	7,250 00	
	<hr/>	99,710 63
		<hr/>
		\$1,793,978 56

ANNUAL REPORT OF THE SUPERINTENDENT OF STREETS

FOR THE FISCAL YEAR ENDING
MARCH 31, 1924.

To the Honorable, the City Council:

GENTLEMEN:

In accordance with the provision of Chapter 25 of the Revised Ordinances of the City of Cambridge, the annual report of the Superintendent of Streets for the fiscal year ending March 31, 1924, is herewith submitted.

Expenditures are shown in some detail with the idea of exhibiting the costs of the general divisions of the Department such as Collection of Ashes, Offal, General Maintenance, Street Watering and Oiling, Street Cleaning, Pavement Repairs, Snow Removal and Bridge Maintenance rather than following the so-called "segregated budget."

The cost of Stable Maintenance has been computed and apportioned according to the numerical use of horses in the various divisions and the cost added to this division under the head of "stable charge."

After the regular budget had been passed it was found necessary to appropriate an additional amount for the unusual amount of patching work necessary after the winter season. This annual spring patching is assuming larger proportions each year due to the increase of truck traffic and the unusual abrasion of the various classes of pavement due to the use of skid chains.

The use and maintenance of traffic signals increased during the year and a larger amount than ever has been expended in making and maintaining devices for regulating traffic and parking.

The new equipment added during the year for cleaning streets has been kept in use until the cold weather and much

favorable comment has been noted on the efficiency of the machines.

Although the winter was not as severe as some preceding years, a considerable advance has been made in the manner of clearing the main streets after storms due to the operation of the new tractor and plow equipment which the department now owns. The new 10-ton Holt tractors and plows are in first class condition and will be ready for any big storm next year.

Owing to the fact that so many of our streets now have bituminous surfaces, but little road oil has been applied during the year. The watering cart force was used only during the warmer part of the summer and but eight carts were put in use.

The bridges under the control of the department were kept in repair and the usual report of the City Engineer follows showing their condition this spring. Commercial Avenue was thoroughly overhauled and the machinery and planking placed in first class condition. The fence and sidewalk on Prison Point Street was entirely renewed on the west side and should not require repair for a long time.

First Street Bridge will be completed early in the spring and opened to traffic. It will be entirely new and modern. It is hoped that the other two bridges in the canal will be reconstructed in the near future.

CITY OF CAMBRIDGE—ENGINEERING DEPARTMENT

EXAMINATION OF BRIDGES

WELLINGTON BROOK BRIDGE

This bridge is in good condition.

ALEWIFE BROOK CULVERT

This bridge is in good repair.

THIRD STREET BRIDGE

This bridge is in poor condition in every way.

FIRST STREET BRIDGE

This bridge is in good condition.

COMMERCIAL AVENUE BRIDGE

The planking on the sidewalk is in poor shape. The four gates are rusted through in many places and are hard to operate and are no protection. New gates needed at once. Two waling strips at the southwest corner have been torn away from the concrete and one or two piles in the dolphin at the same corner are broken. The bearing-boxes on the main shaft on the northerly side are loose. The key way for the spur gear at the northeast corner is worn and the gear moves on shaft. This should be repaired at once.

WALDEN STREET BRIDGE

This bridge is in good condition but needs *painting*.

FOUNTAIN TERRACE BRIDGE

This bridge needs *painting* very badly. The sidewalk should be replanked and the fence post at northwest corner is now broken and should be replaced. The pedestal stones are covered with clay, which covers part of the steel work, causing rust. These should be cleaned.

WATERTOWN BRANCH AND HURON AVENUE BRIDGE

This bridge is in good repair but needs *painting*. The footings are covered with clay, which causes rust on some of the steel work and should be cleaned. The diagonal rods under floor are exposed to the exhaust from the locomotives and should be covered with lead or other covering.

FIRST STREET UNDER PASS

(Under Cambridge Bridge Approach)

Exposed steel work needs thorough cleansing and painting; one coat red lead, one coat paint.

L. M. HASTINGS,
City Engineer.

MAINTENANCE EXPENDITURES

"A"	Labor	\$216,940 03
"B"	Service other than personal	12,384 93
"C"	Equipment	3,396 72
"D"	Supplies	7,979 15
"E"	Materials	14,071 39
"F"	Special repairs	9,996 03

"F"	Bridge Repairs	10,567 57
"F"	Compensation	1,742 38
"F"	Bitulithic patching	6,025 10
	Stable charges	18,967 00

\$302,070 30

MAINTENANCE GENERAL

Executive office expense:

Superintendent's salary	\$3,000 00
Salaries of clerks	5,268 00
Printing and binding	211 87
Postage	128 08
Advertising	116 50
Telephone service	211 62
Stationery and office supplies.....	361 68
Ice and water	45 57
Machine repairs	1 18

\$9,344 50

General expenses:

Labor, payrolls	\$55,206 34
Compensation for injured employees.....	1,742 38
Stable charge, use of horses.....	8,239 40
New horses	2,450 00
Medical service	78 00
Freight	28 10
Boots	5 88
Spur track repairs	222 77
Miscellaneous	2 94

67,975 81
6,025 10

Patching bitulithic pavement

Special appropriation for patching:

Penetration binders	\$3,282 44
Blanket coatings	3,479 93
Patching compound	18 58
Coal for roller	299 65
Sand	1,221 42
Stone	813 10
Labor	880 91

9,996 03

Street and safety signs and material:

Acetylene gas	\$204 58
Kerosene	74 28
Lanterns	110 25
Stock for signs and posts	434 71
Street line paint	466 81
Enamel signs	70 56
Repair parts for beacons.....	91 47

1,452 66

Steam roller parts and supplies:

Coal	\$104 02
Machine work	76 62
Inspections	20 00
Repair parts	84 10
Supplies	71 78

356 52

SUPERINTENDENT OF STREETS

377

Motor supplies and repairs:

Mechanical repairs, cars	\$88 58	
Mechanical repairs, trucks	12 70	
Tire and tube repairs	123 21	
Repair parts	621 58	
Tires	744 48	
Gasoline	3,393 38	
Oil and grease	549 80	
Waste	56 80	
Sweeper parts	542 86	
Battery service	37 83	
License fees	108 00	
Miscellaneous	7 84	
		<hr/>
		6,287 06

Road materials:

Penetration binders	\$2,537 98	
Blanket coatings	3,743 94	
Crushed stone	3,273 27	
Wood blocks	1,522 86	
Castings	12 25	
		<hr/>
		11,090 30

Total Maintenance \$112,527 98

STREET CLEANING

Labor, payrolls	\$100,630 18	
Hired teams	1,204 50	
Hired trucks	2,853 31	
Stable charge, use of horses	9,742 20	
Tools	247 73	
New equipment	34 30	
		<hr/>
		114,970 02

STREET WATERING AND OILING

Sprinkling by hired teams.....	\$6,018 80	
Power for pump plant	12 00	
Road oil	1,549 95	
Testing oils	15 68	
Standpipe repairs	37 11	
		<hr/>
		7,633 54

SNOW REMOVAL

Labor, payroll	\$21,723 12	
Stable charges, use of horses	920 40	
Tools	496 78	
		<hr/>
		23,180 30

PAVEMENT REPAIRS

Labor, payroll	516 00	
Stable charge, use of horses.....	65 00	
Sand	191 03	
Bricks	368 72	
		<hr/>
		1,140 75

BRIDGES

Drawtenders' salaries	\$30,146	27	
Power and light	393	52	
Coal for houses	182	97	
Salt	22	93	
Machinery repairs	29	39	
Electrical repairs	390	45	
Repair parts	66	68	
Lumber for repairs	856	93	
Contract repair work:			
Prison Point fence and walk.....	\$4,743	20	
Commercial Avenue	5,824	37	
			<hr/>
	10,567	57	
			<hr/>
			42,657 71
			<hr/>
			\$302,070 30

COLLECTION OF HOUSE OFFAL

Foremen	\$2,904	23	
Laborers at \$4.50.....	75,665	95	
Medical service	158	76	
Compensation to employees.....	3,506	81	
Stable charge	24,741	60	
			<hr/>
			\$106,977 35

COLLECTION OF ASHES

Foremen	\$2,735	08	
Working foremen	2,527	21	
Chauffeurs	4,762	42	
Laborers at \$4.75	103,013	59	
Laborers at \$4.50	69,914	92	
Repairs to trucks	2,683	30	
License fees	26	00	
Repairs to incinerator	941	40	
Ash covers	121	91	
Motor equipment maintenance	3,679	06	
Stable charge	63,918	40	
Compensation	2,994	02	
Medical service	1,223	25	
			<hr/>
			258,540 56
			<hr/>
Total Sanitary expense.....	\$365,517	91	

The collection of house offal cost this year \$106,977.35 and there were collected 19,400 cord feet of material from the houses and stores. It is estimated that about 5,000 tons of this material was disposed of. It was sold to farmers for hog feed as usual and the amount received as revenue and turned over to the Treasurer was \$12,218.99.

The cost of the ashes collection for the year was \$258,540.56 and the number of loads of material collected is as follows:

Shadbolt carts	19,520 loads
Double teams	3,475 loads
Five ton trucks	3,141 loads
Single teams	8,204 loads
Paper wagons	7,029 loads

It is estimated that about 200,000 cubic yards of material of all kinds are represented in these figures.

NEW WORK

BITUMINOUS SURFACING WORK

The following table exhibits the newer streets built from loan funds during the year. There were three new streets accepted and built this year, Blakeslee street, Gray Gardens East and West and Alden Road. Most of the houses are now built on these streets.

It is expected that other developments of like character in the western end of the city will require similar road work the coming season.

BITUMINOUS MACADAM STREETS 1923

Street	Payroll	Crushed Stone	Fuel	Binder	Stable Charge	Sundries	Total
Allston, Putnam Avenue to Magazine.....	\$290 41	\$1,208 40	\$36 30	\$561 01	.....	.....	\$2,096 12
Alden Road	2,105 30	541 70	16 46	120 59	\$218 00	.....	3,002 05
Blakeslee Street	2,958 39	1,672 37	63 62	550 37	330 00	\$57 82	6,632 57
Everett Street	595 79	2,015 88	25 83	998 57	123 00	.....	3,759 07
Gray Gardens, East and West.....	2,475 61	3,391 34	65 50	781 23	357 00	.....	7,070 68
Longfellow Road	1,938 08	992 96	21 17	366 92	333 00	.....	3,652 15
Lakeview Avenue at Huron Avenue.....	.....	1,660 05	21 17	764 01	.....	.....	2,445 23
Martin Street	523 25	1,060 01	46 97	361 18	117 00	.....	2,108 41
Notre Dame Avenue.....	1,412 75	1,093 25	.....	332 52	324 00	.....	3,162 52
Prentiss Street	786 99	1,463 72	49 51	309 59	168 00	.....	2,777 81
Raymond Street	755 99	1,288 69	24 08	725 49	144 00	10 38	2,948 63
Reservoir Street .....	.....	802 94	.....	321 05	.....	.....	1,123 99
Surrey Street	485 06	502 49	.....	183 46	72 00	.....	1,243 01
Tremont, Broadway to Hampshire.....	282 63	1,328 31	21 48	568 84	.....	.....	2,201 26
Vineyard Street	738 30	879 45	25 37	91 73	93 00	.....	1,827 85
Washburn Avenue	658 88	856 27	44 41	513 13	186 00	.....	2,258 69
							\$48,310 04

ALBANY STREET

Balance from 1922-23		\$22,516 25
Payroll	\$9,693 22	
Teaming	57 38	
Hardware, tools, etc.....	315 12	
Gravel	929 58	
Cement	2,125 71	
Fuel	127 93	
Lighting	145 47	
Recutting blocks	721 30	
Engineer's labor	138 00	
Mixer repairs	13 75	
Stable charges	277 00	
		<hr/> 14,544 86
Balance		<hr/> \$7,471 39

This section of Albany Street was started where we left off in the late fall of last year at Pacific street and continued several hundred feet. The large blocks were cut in two and repaved into the street on a concrete base with cement grout.

It is anticipated that an additional appropriation will be made to close in the entire job through to Erie Street this season and this important thoroughfare will then be in first-class condition.

AMORY STREET

Appropriation		\$6,400 00
Additional by transfer		4,415 73
		<hr/> \$10,815 73
Payroll	\$4,314 83	
Hardware, tools, etc.....	21 31	
Gravel	10 18	
Crushed stone	41 67	
Fuel	72 67	
Lighting	1 47	
Amiesite	5,640 32	
Binder	47 19	
Stable charges	666 00	
		<hr/> \$10,815 73

This street was constructed with Amiesite mixture. The material was received all mixed in cars and the department force unloaded and put the material on the street and rolled it in. It presents a fine appearance and is the first street of this type to be constructed in this city. Its wearing qualities will be watched with interest.

ARROW STREET

Appropriation		\$3,500 00
Payroll	\$404 89	
Fuel	10 58	
Bitulithic surface	2,563 87	
Stable charges	153 00	
	<hr/>	3,132 34
Balance		<hr/> \$367 66

This street was constructed with Warrenite-Bitulithic top on the old macadam surface. There were 1362.6 square yards in the work.

BLACKSTONE STREET

Appropriation		\$9,500 00
Payroll	\$1,748 92	
Fuel	19 60	
Bitulithic	6,098 27	
Stable charges	420 00	
	<hr/>	8,286 21
Balance		<hr/> \$1,231 21

This street was constructed with Warrenite-Bitulithic surface on the old macadam top. There were 3,241 square yards.

CHERRY STREET

Entire

Appropriation		\$7,500 00
Payroll	\$1,353 86	
Crushed stone	145 84	
Fuel	19 60	
Lighting	46 55	
Binder	83 89	
Bitulithic surface	4,885 20	
Stable charges	774 00	
	<hr/>	7,308 94
Balance		<hr/> \$191 06

This street was constructed with Warrenite-Bitulithic top on the old macadam surface. There were 2,596.3 square yards in the job.

CAMBRIDGE STREET

Balance of appropriation		\$12,331 14
Payroll	\$105 18	
Asbestophalt	7,280 19	
	<hr/>	7,385 37
Balance		<hr/> \$4,945 37

The section of Cambridge Street from Inman Square to Trowbridge Street uncompleted last season was finished with the one-inch Asbestophalt surface by Warren Brothers Company.

COLUMBIA STREET

Massachusetts Avenue to Hampshire Street

Appropriation		\$24,000 00
Additional by transfer		516 16
		<hr/> \$24,516 16
Payroll	\$6,590 24	
Hardware, tools	129 36	
Crushed stone	312 52	
Fuel	140 52	
Lighting	82 32	
Roller parts	280 59	
Bitulithic surface	15,356 50	
Binder	283 11	
Stable charges	1,341 11	
	<hr/>	\$24,516 16

This section of Columbia Street from Massachusetts Avenue to Hampshire Street was built with Warrenite-Bitulithic top on the old macadam surface. There were 8,161.4 square yards of Bitulithic in the job.

EDGESTONES AND SIDEWALKS

Appropriation		\$50,562 76
Payroll	\$29,375 91	
Hardware, tools, etc.....	186 82	
Stable charges	2,500 00	
Lighting	232 26	
Sidewalks bricks	7,350 49	
Granolithic rebates	1,892 43	
Sand	1,630 90	
Edgestone	7,324 62	
Lumber	9 80	
Granolithic repairs	59 63	
	<hr/>	\$50,562 76

Due to the fact that there was a generous supply of funds available for edgestone and sidewalk work this year, the department has been able to complete the greater number of petitions in its files and much improvement in the walks throughout the city has been made.

The number of petitions for driveways greatly increased during the year, reflecting the increase of automobiles and garages for housing them. As usual, these petitions were accompanied by prepaid deposits and the revenue accounts are in good condition.

FIRST STREET

Balance from 1922		\$4,430 05
Payroll	\$485 09	
Hardware, tools, etc.....	150 48	
Gravel	279 56	
	<hr/>	915 13
Balance		<hr/> \$3,514 92

This amount was expended in finishing up a small piece of paving left last fall.

FIVE-YEAR BALANCES OF 1922

Balance	\$1,338 19
Surface coatings	1,243 96
	<hr/>
Balance	\$94 23

The above amount was expended for surface coatings on tar and asphalt streets built last season.

FRANKLIN STREET

At Simplex Wire Plant

Appropriation from balances		\$845 57
Payroll	\$131 66	
Crushed stone	62 50	
Bitulithic	651 41	
	<hr/>	\$845 57

The work done here was between the two buildings of the Simplex Company. The paving blocks were removed and used in the Main Street job after being recut. A crushed stone base

was laid and covered with Warrenite Bitulithic. This work was done to enable the company to run its tractor between the buildings.

GARBAGE TANKS

An appropriation was made of \$5,000.00 for the purpose of constructing two garbage tanks for garbage storage at the Tannery Street Yard. The work of installing them was turned over to the Building Department and at this writing are approaching completion.

GARDEN STREET

Arsenal Square to Linnaean Street

Appropriation		\$19,000 00
Payroll	\$4,137 68	
Hardware, tools, etc.....	17 74	
Crushed stone	96 38	
Fuel	188 36	
Lighting	69 33	
Roller parts	24 99	
Binder	293 62	
Bitulithic	12,122 58	
Stable charge	1,035 00	
		<hr/>
		17,985 68
Balance		<hr/>
		\$1,014 32

This section of Garden Street was completed with Warrenite-Bitulithic top on the old macadam surface. The top material taken off was used to resurface adjacent streets.

IRVING STREET

Appropriation	\$3,500 00
Labor	715 60
	<hr/>
Balance	\$2,784 40

This appropriation was made from the tax levy funds for the purpose of discontinuing that section of Irving Street between Broadway and Cambridge Street. The work was stopped on account of the cold weather. The rest of the work will be completed early in the spring and the finishing done by the Park Department.

MOTOR TRACTORS

Appropriation		\$15,000 00
Additional appropriation		562 74
		<hr/>
		\$15,562 74
Advertising	\$35 27	
Tractors	14,518 70	
Accessories	260 60	
Ford truck	748 17	
	<hr/>	\$15,562 74

Two ten-ton Holt Caterpillar Tractors were added to the equipment the past year. One is fitted with a Baker blade plow and the other with a Sargent plow. Both machines were used throughout the winter in heavy snow and rendered excellent service in keeping the roads clear.

A Ford truck was also purchased to assist in the street cleaning work.

MOTOR SWEEPERS

Appropriation		\$13,000 00
Additional appropriation		361 11
		<hr/>
		\$13,361 11
Advertising	\$38 70	
Motor sweepers	12,985 00	
Accessories	337 41	
	<hr/>	\$13,361 11

Two of the latest model Springfield motor sweepers were purchased during the year and were put to work on the streets.

Their work has been favorably commented upon and the streets in general have been kept cleaner than ever before. During the summer the sweepers were worked Saturday nights from midnight to Sunday morning in sections inaccessible during the day on account of motor traffic and parking.

MAIN STREET

Balance from 1922		\$13,081 50
New appropriation		100,000 00
		<hr/>
		\$113,081 50
Payroll	\$37,811 05	
Teaming	1,545 25	
Hardware, tools, etc.....	989 84	
Sand and stone.....	7,796 70	

Cement	4,889 99	
Lumber	7 41	
Fuel	183 64	
Lighting	381 46	
Sundries	17 14	
Recutting blocks	5,838 18	
Boiler inspection	5 00	
Engineer's payroll	969 38	
Repairs to mixer	156 35	
New granite blocks	347 82	
Stable charge	525 00	
		<hr/>
		61,464 21
Balance		<hr/>
		\$48,668 29

This section of Main Street was picked up this year on the south side from Dock Street and completed to the R. R. Crossing. It was then opened up again from the Crossing and continued on the north side to Portland Street and the entire south side to Lafayette Square. The small blocks were recut and paved back on a concrete base with cement grout. It is expected that the entire job will be finished early next season. In August of this year the railroad company again assumed the maintenance of their track strips.

NORFOLK STREET

Appropriation		\$15,000 00
Payroll	\$4,526 35	
Crushed stone	166 68	
Fuel	62 99	
Lighting	89 96	
Bitulithic surface	8,688 29	
Roller parts	34 30	
Binder	157 29	
Stable charge	289 00	
		<hr/>
		14,014 86
Balance		<hr/>
		\$485 14

The section of Norfolk Street from Mass. Avenue to Broadway was completed this year with Warrenite-Bitulithic on the old macadam surface. There were 4,617.5 square yards in the job.

PLYMPTON STREET

Appropriation		\$6,500 00
Payroll	\$1,250 11	
Fuel	31 75	
Lighting	49 00	
		<hr/>

Roller parts	93 53	
Bitulithic pavement	3,747 02	
Stable charge	303 00	
		<hr/> 5,474 41
Balance		<hr/> \$1,025 59

Plympton Street from Memorial Drive to Bow Street was constructed with Warrenite-Bitulithic top on the old macadam base during the year. There were 1,991.4 square yards in the job.

PLEASANT STREET

Balance from 1922		\$7,067 60
Payroll	\$1,101 41	
Hardware, tools, etc.....	49 98	
Crushed stone	104 17	
Fuel	60 93	
Lighting	41 65	
Bitulithic pavement	1,825 15	
Stable charges	141 00	
		<hr/> 3,324 29
Balance		<hr/> \$3,743 31

The section of Pleasant Street from Western Avenue to Green Street was completed with Warrenite-Bitulithic top on the old macadam base. There were 970.0 square yards in the job. The only section now left to be done on this street is that between Green Street and Massachusetts Avenue.

PEABODY STREET WIDENING

Appropriation		\$7,000 00
Payroll	\$2,562 85	
Hardware, tools, etc.....	102 90	
Fuel	21 17	
Lighting	11 76	
Bitulithic surface	1,534 26	
Stable charges	195 00	
		<hr/> 4,791 04
Balance		<hr/> \$2,208 96

The area at the small common known as Peabody Street was widened by setting back the circle edgestone several feet and paving the space with Warrenite-Bitulithic on a crushed stone base.

The improvement was needed to care for the increasing traffic through the street.

There were 815.5 square yards in the job.

SHERMAN STREET

Appropriations and transfers		\$9,712 12
Payroll	\$1,072 15	
Crushed stone	1,295 99	
Fuel	110 21	
Lighting	22 93	
Bitulithic surface	5,586 84	
Stable charge	624 00	
		<hr/> 9,712 12

The old granite blocks were removed from Sherman Street between Rindge Avenue and the R. R. Crossing and hauled into the Raymond Street Yard. A crushed stone base was substituted and the Warrenite-Bitulithic pavement laid. There were 2,969.2 square yards in the area.

The old block will be recut and used again on other work.

SOMERVILLE AVENUE

Appropriation and transfers		\$10,071 56
Payroll	\$3,454 39	
Hardware, tools, etc.....	131 11	
Crushed stone	567 09	
Lighting	33 81	
Recutting blocks	63 70	
Bitulithic surface	4,585 46	
Stable charge	1,236 00	
		<hr/> 10,071 56

The granite block on the east side of Somerville Avenue from the Somerville line to the long crossing at Massachusetts Avenue was removed and stored in the yard. Bitulithic pavement on a crushed stone base was substituted. On the west side of the car track the old macadam was surfaced with Bitulithic and the entire street is now smooth paved. There were 2,437 square yards in the job.

THREE AND ONE-HALF TON TRUCK

Appropriation and transfers.....		\$6,069 46
Advertising	\$43 24	
Mack truck	6,026 22	
		<hr/> 6,069 46

A three and one-half ton truck was added to the Street Cleaning equipment and has been in constant use since June.

VASSAR STREET

Transfers		\$3,266 47
Payroll	\$1,300 47	
Excavating contract	1,813 00	
Stable charge	153 00	
		3,266 47

A short section of Vassar Street below Fowler was brought to grade for the accommodation of a new manufacturing building located there. The grading was done by steam shovel and finished by the department force.

STREET DEPARTMENT
INVENTORY OF REAL AND PERSONAL PROPERTY
Real Estate

Location	Buildings and Land	Erec- tion of Build- ings	Pur- chase of Land	Feet of Land	Valua- tion of Land	Valua- tion of Build- ings
Raymond St....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	\$27,300	\$27,000
	Incinerator plant.....	1912	.....	.....	.....	5,000
Hampshire St.	City Stable, sheds, stables and scales, including old police station, garage	1885	.....	72,661	32,400	71,000
E.S.Norfolk St.	Yard and pound.....	.....	.....	34,650	13,900	300
Acton, Mass....	Land, gravel bank.....	.....	1896	.....	3,000	.....
Main St.....	Land and incinerator plant	1908	.....	52,000	32,700	11,200
					\$109,300	\$114,500

PERSONAL PROPERTY

124 horses	\$36,000 00
8 watering carts	2,400 00
85 single and double carts.....	8,500 00
130 sets harness	2,500 00
2 gasoline concrete mixers	500 00
1 steam concrete mixer	5,000 00
7 automobiles	2,500 00
3 five-ton trucks	6,000 00

1 three and one-half ton truck.....	5,000 00
1 Ford truck	700 00
2 ten ton Holt tractors and plows.....	15,000 00
2 Springfield motor sweepers.....	12,500 00
22 Shadbolt carts	7,000 00
1 Watson cart	200 00
50 feet straight edgestone	50 00
20,000 second hand vitrified brick.....	500 00
50,000 second hand granite blocks	2,500 00
Oil storage, Portland street	1,000 00
Oil storage, Raymond street	1,000 00
Stone crushing plant, Raymond street.....	500 00
Garbage storage, Tannery street	6,000 00
Furnace, Main street incinerator.....	7,000 00
Miscellaneous machinery	500 00
Stocks of tools, road machines, brooms, scrapers, waste barrels, push carts, etc.....	9,000 00
Flashing signals, signs and posts, etc.....	3,000 00
Miscellaneous wagons, plows, pungs, etc.....	2,000 00
Stocks of fodder, paints, and general supplies for shops.....	1,500 00
4 steam rollers	10,000 00
Total	\$148,350 00

IN GENERAL

A new amendment to the municipal finance law will make it necessary this year to include in the tax levy budget an amount equal to twenty-five cents of each thousand dollars of valuation for any purpose for which this department usually borrows funds. This will mean that the usual appropriation for Edgestones and Sidewalks will have to be included in the tax levy and approximately \$40,000 on each of the other loans for street building. At the present writing, the annual budget has been made up and these amounts included so that the program for the coming season is completely arranged.

It is expected that the two large thoroughfares, Main and Albany Streets, will be completed next years and several other streets have been provided for and will be built with permanent paving as well as a list of minor streets which will receive the usual bituminous macadam treatment.

RECOMMENDATIONS

The motor equipment of the Ash division is badly in need of renewal and at least two new motor trucks should be added to the force.

As outlined in many previous reports, it is evident that a complete survey of the collection and disposal of refuse should be made with a view to the better organizing of this division and providing permanent disposal plans for both classes of the material, garbage and ashes.

A new steam roller of the most modern design is urgently needed as one of the older ones cannot be used much longer. The addition of an extra motor sweeper would add to the efficiency of the Cleaning Division.

In January of this year the incinerator building at Raymond Street Yard was practically destroyed by fire and an appropriation should be made early this season to rebuild the plant. The loss was estimated at \$5,000.

There is urgent need of additional equipment for the collection of house offal and either a motor truck with large body or horse-drawn double teams with larger bodies than we now use should be put on certain of the routes especially where there are restaurants and large dining places.

I desire to extend my appreciation of the co-operation and assistance of His Honor, the Mayor and the City Government and to the employees of the department generally for their part in the completion of the year's work.

Respectfully submitted,

EDWARD J. DUNPHY,

Superintendent of Streets.

REPORT OF THE BOARD OF PARK COMMISSIONERS

To the Honorable, the City Council, of the City of Cambridge:

GENTLEMEN:

The Board of Park Commissioners has the honor to submit its thirty-first annual report for the fiscal year ending March 31st, 1924.

This is the first full year of service of the present Board which was created by an ordinance passed by you, June 6th, 1922, and approved by His Honor, the Mayor, June 21, 1922. By the terms of this ordinance the membership of the Board was increased from five to nine and the enlarged Board was authorized to appoint a Superintendent of Recreation in addition to the officers already employed by it, in the conduct of its activities.

Although the ordinance conferred no new duties upon the Board, its passage was the result of a growing public demand for greater recreational opportunities and leadership for the citizens of Cambridge, especially the boys and girls.

The increased emphasis on this division of the Board's work was deemed more a matter of personnel than of a specific ordinance and in recognition of this fact, His Honor, the Mayor, in appointing the four new members chose two men and two women, who had performed conspicuous public service in this field.

The new members have inspired the entire board with their enthusiasm, and marked progress has been made during the past year. This progress would not have been possible, however, without the hearty co-operation of the Mayor and City Council, which has been most strikingly indicated by the increased appropriations for salaries of instructors and material equipment for both indoor and outdoor recreation.

The Board has held 21 meetings during the year, with an average attendance of eight members at each, and has had many

problems to solve. It feels, however, that the best evidence of its activities is to be found in the reports of the two Superintendents which are herewith transmitted.

Respectfully submitted,

CARROLL W. DOTEN,
STEPHEN H. HARRINGTON,
WAYLAND M. MINOT,
HELEN C. ALMY,
JOHN B. DORE,
JOHN J. RYAN,
MICHAEL F. SCANNELL,
JEREMIAH J. COUGHLAN,
JESSIE W. BROOKS,

Park Commissioners.

April 1, 1924.

REPORT OF THE GENERAL SUPERINTENDENT OF
PARKS

Cambridge, April 1, 1924.*To the Board of Park Commissioners of the City of Cambridge:*

LADIES AND GENTLEMEN:

I have the honor to submit my Seventeenth Annual Report for the financial year beginning April 1st, 1923, and ending March 31st, 1924.

CAMBRIDGE COMMON

This field was in fairly good condition during the past year so that it was not necessary to make any extensive repairs. Three men were employed during the summer months taking care of the grass, walks, and general up-keep of the park.

The iron fence around the Soldiers' Monument was repaired as well as several of the post rails around the edge of the common.

The appearance of the field was materially improved by disposing of the small tool house which was erected here during the war and which was to say the least rather an unsightly addition.

CAMBRIDGE FIELD

The lawn in front of the building was spaded, seeded and rolled, also fenced with a 5-ft. post topped with wire. It is to be hoped that this will be the means of eliminating the present trampled condition of the lawn and enable us to keep it respectable hereafter.

It was necessary to repair the Shower Baths several times during the year, owing to the constant wear and tear to which these showers are subjected, but the results obtained were very unsatisfactory. The lavatories are also in bad condition and this is not to be wondered at when one considers that the building is 30 years old. It was, therefore, necessary to make extensive repairs not only in the plumbing system, but in the general appearance of the building, such as painting the walls and lockers, and whitewashing the ceilings. An entire new system is necessary and it is practically hopeless to expect to remedy the present

conditions unless this is installed. I most earnestly recommend that provision be made to have this taken care of during the next year.

The usual hockey rinks were installed, these being built in the middle of the field this year, rather than at the side, as heretofore. This location gives more general satisfaction and involved considerably less labor, and with the addition of eight new arc lights made a very fine field for this particular game.

Owing to the very mild winter, but little skating was available in comparison with former years.

Goal-posts were set for the football season and the field marked for the games.

The repairing of the apparatus consisted of two slides and 46 swings, and the painting of the swing frames.

About 300 ft. of the chain link fence was also painted, as well as the back-stop.

The field was oiled and rolled twice.

THORNDIKE FIELD

The principal work done was the re-surfacing of the ball-field and the girls' playground, after which a coat of oil was applied and the entire field rolled.

The bleachers which were built in 1904 are in very poor condition, which made it necessary to make many repairs this year. The seating capacity here is nowhere near ample to take care of the large numbers who come to enjoy the games and this should be at least doubled.

Goal-posts were erected and a hockey rink similar to that on Cambridge Field was built.

The lighting of the field was accomplished by the use of three large flood lights which were already on the roof of the Thorndike School. These were used merely as an experiment and did not prove entirely satisfactory, as they were too far distant from the field to give sufficient light. In the future, lights should be installed directly over the rink.

The back-stop was painted, 16 of the swings repaired, and a new set of bases purchased.

RINDGE FIELD

It was necessary to replace the posts around the lawn tennis court as the old ones became decayed. New wire was purchased for the backstops. That part of the field formerly used as a nursery was cleaned by removing the old tree and shrubbery roots. This is now in good condition for playground purposes.

The field was oiled and rolled. A hockey rink was built and lighted. Two sets of bases were purchased.

RUSSELL FIELD

A contract was entered into to the amount of Sixteen Thousand Dollars (\$16,000) with Holt Fairchild Company of Boston for the erection of a new locker building and alterations on the old building.

Work on the new building was commenced in May and when completed it measured 83' 6" long and 21' 6" wide. It is finished on the outside with terra-cotta brick and roofed with asphalt shingles. The inside of the building is all painted in white and contains two large dressing rooms with lockers; two shower rooms with four showers in each room; two well equipped lavatories, an emergency room, boiler room and a ladies' rest room. A telephone has been installed here.

The alterations on the old locker building consisted of the installing of all new plumbing; the laying of a new cement floor, thereby making a good sanitary building for the men.

The location selected for the new building necessitated the changing of about 200 ft. of fence.

The grounds around the building were graded by the men in the department.

The bleachers and the fence at the top of them were repaired, some of this work being accomplished last year, and for which a total of 2,000 ft. of lumber was required.

A new chain link back-stop, goal posts, and two sets of bases were purchased and erected.

The usual trouble resulted with the fence around the field, about 180 ft. on the northerly side having been blown down. This condition cannot be remedied until the wooden posts are replaced with concrete ones. I wish, therefore, to renew my

recommendation of last year and suggest that an appropriation be allotted sufficient for the construction of these concrete posts and the erection of a chain link fence in front of the bleachers. These two improvements taken in conjunction with the repairs and additions effected during the past year would without a doubt make this park one of the best athletic fields in New England.

RUSSELL E. HOYT FIELD

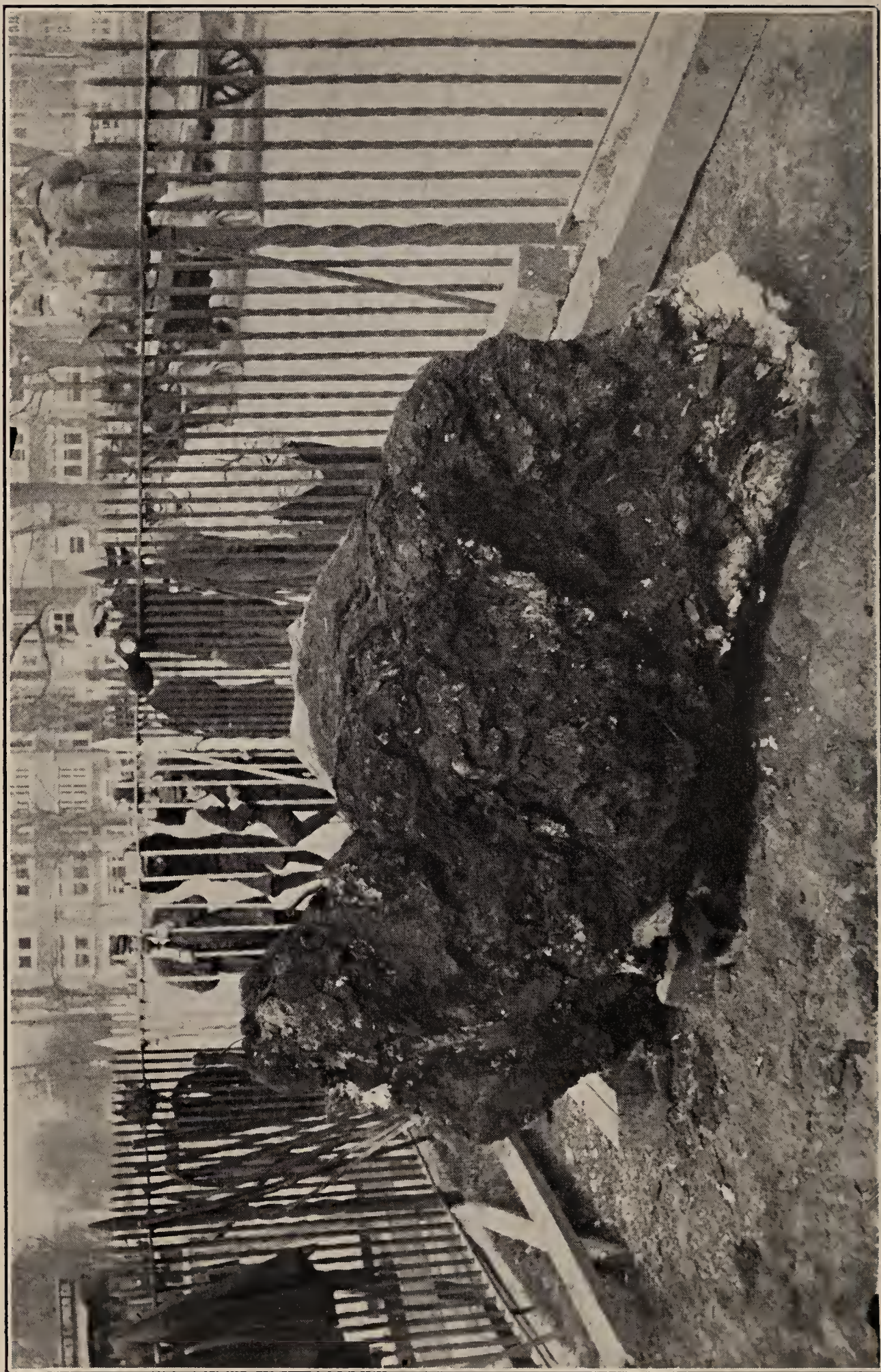
A memorial Flag Staff was erected in memory of those citizens who made the Supreme Sacrifice in war. The foundation was laid under the direction of this department. An arrangement was entered into with the John T. Scully Foundation Company whereby they were to do such work as would be necessary in order to make this marshy ground suitable for usage. The cost of this foundation was \$850. The purchasing and erection of the pole came under the jurisdiction of the Executive Department.

Fifteen Lombardy Poplar trees were planted; the field was rolled; hockey rinks built and arrangements made for the lighting of the field during the games. Fourteen swings were repaired.

Inasmuch as this is one of the most popular fields in the City, not only should the field be resurfaced, but provisions should be made for a new locker building. At present there are no sanitary arrangements and a field so well patronized should have better equipment.

BROADWAY COMMON

Not much can be said in favor of the condition of this common. Once it was one of the beauty spots of the City, but it has been an impossibility to keep it in even a respectable condition during the past two or three years. This is largely due to the fact that a portion of the field has been allotted for playground purposes and notwithstanding the fact that this part of the field is set apart from the remainder of the park, the children insist upon using the portion which is not reserved for playground purposes for play in football, baseball, or whatever other game they wish. The iron picket fence along Broadway has been broken and entirely demolished. Whatever work has been done



WASHINGTON ELM—OCTOBER 27, 1923
Showing Condition of Root as Lifted Out of the Ground

relative to improving its appearance has been undone overnight, so that in spite of the fact that considerable time and money have been spent to improve conditions, the park is in no better shape than it was when I made my report a year ago.

The flag pole was painted and twelve 8-ft. swings were erected.

Four dead trees were removed and what remains of the shrubbery beds and grass received the usual attention.

FRESH POND PLAYGROUND

Through the generosity of the Water Board and their Superintendent, the Park Commission was granted the use of this piece of land, containing about three acres, for playground purposes.

The condition of the ground here is very uneven and in order to make it a practical ballfield, it should be ploughed, harrowed, regraded and rolled. Some slight grading was done on the diamond this year, but just sufficient to make it usable. With the additional work mentioned above, a good ballfield would be procured and a long-felt want in this vicinity would be filled.

There were 12 children's swings and nine larger swings erected, as well as frames for six tilts. Before this equipment could be erected, it was necessary to do considerable filling-in of the ground for which work 15 loads of loam were required.

ROBERTS SCHOOL YARD

Four hundred and one feet of concrete curbing were laid around this playground, under contract with William F. Condon and Son, for the sum of \$696.20.

A new sewer with catchbasin was built. The grounds were graded; a new arc light installed; six swings were repaired, and the yard flooded for skating during the winter months.

MERRILL SCHOOL YARD

Eight 8-ft. swings were erected. The grounds oiled; a dike built around the edges to hold water during the skating season.

A new arc light was installed and the chain link fence painted.

CORPORAL BURNS PLAYGROUND

Owing to the poor condition of the land here it was found impossible to hold water for skating. It was flooded several times during the season only to find that in a few hours afterwards it had all soaked through the earth.

A new hockey rink had been built but the children received no benefit therefrom owing to the porous condition of the ground.

A frame for six tilts was erected; a new arc light installed; 14 swings repaired.

LONGFELLOW PARK

A new chain link fence, 6-ft. high, was erected on the dividing line between 175 Mt. Auburn Street and the Park, the department paying one-half the cost and the abuttor the other half.

The grounds received the usual care, one man being constantly employed.

The watering trough at Craigie and Brattle Streets was painted.

WINTHROP SQUARE

I find it hard to keep this small place in any kind of good condition. Children insist on using it for playing while the place is so small that it is not suitable for a playground.

The shrubbery beds were pruned; the walks were cleaned and the grass cut when needed.

The two small squares at Pleasant Street and Western Avenue, and Pleasant and River Streets were spaded, graded, seeded and rolled, and a few shrubs planted in the corners.

HASTINGS, DANA AND FORT WASHINGTON SQUARES

The usual care was given these squares.

The fence around Fort Washington is in very poor condition and should be repaired.

SLEEPER SCHOOL

The fence was painted around the playground at this school.

CITY HALL GROUNDS

The customary care was given to these grounds. A top dressing of loam was applied, then seeded and rolled.

Two new blue spruce trees were planted.

GERRY'S LANDING

Some necessary plumbing repairs were made at the bath house on this landing.

A voting booth was set up as a bath house for women.

FLOATING BATH HOUSE

The floating bath house was towed to place.

It was also necessary to make some minor repairs here.

Ways and means were devised for the manufacturing of a pattern for fixtures to be used on swings. This has proved very satisfactory, inasmuch as it is possible to procure such parts as are needed from one of the local foundries, whereas heretofore it was necessary to wait from five to eight weeks for deliveries. In addition, the expense has been materially reduced, thereby enabling us to make a saving of practically two-thirds of the original cost, when we were obliged to purchase them from jobbers.

New tubes were placed in the steam roller.

A new Ford Sedan was purchased at a cost of \$584.51 to replace the one which was burned.

There were 1,000 ft. of 3" hose purchased for the purpose of flooding the various playgrounds for skating.

WASHINGTON ELM

On the afternoon of October 26th, while several of the department workmen were removing pieces of dead wood from the top of the tree, the entire tree toppled over, crashing across

Garden Street, entangling wires, wrecking the iron fence, and narrowly escaping automobiles and passing pedestrians.

Examination of the trunk of the tree indicated that not a single root or fibre was holding it in the ground and it was merely set in just like a post. Therefore, when the two men who were working at the top of the tree descended to pull the rope to sever the balance of one of the limbs, after having sawed almost through same, there was nothing to prevent the over-balancing of the entire tree, and all who saw it marvelled at the fact that it had not happened before.

It did not take long for several hundred souvenir hunters to gather the fragments of the historic tree and the police, assisted by employees of the department, had their work well defined to preserve any of it. As a matter of fact, one woman came along with her own saw and threatened to use it on anyone who dared to prevent her from getting a piece of the wood.

The members of your Board held a meeting the following morning and voted to have the tree cut into short lengths and stored in a safe place until a decision should be reached relative to its disposition.

At the writer's request, a committee of experts were asked to view the tree in order to determine if any neglect, carelessness or oversight could have been responsible for the catastrophe. This committee's report is contained herein, the following having served thereon:

Mr. George A. Smith.....State Forester

Mr. James B. Shea.....Chairman, Boston Park Dept.

Professor Charles S.

SargentArnold Arboretum of Harvard
University.

Professor Sargent was unable to serve but appointed Mr. E. H. Wilson in his place.

ARNOLD ARBORETUM, HARVARD UNIVERSITY

Jamaica Plain, Mass., November 3, 1923.

Board of Park Commissioners, City of Cambridge, Mass.

GENTLEMEN:

In accordance with your request of October 31st, State Forester Smith, Mr. James B. Shea, Commissioner of Boston

Parks, and Mr. E. H. Wilson, representing Professor Sargent, examined the fallen Washington Elm on November 2nd.

The entire base of the tree trunk and of the roots were quite rotten and the tree has been held in an upright position by its own weight and pressure. In the attempt to remove the dangerous overhanging branches the equilibrium of the tree was upset, causing it to topple over. No blame can be attached to anyone concerned in the operation and no one could appreciate the complete rottenness of the tree base until it fell down. In the interest of public safety the tree should have been taken down long ago.

We are, gentlemen,

Respectfully yours,

E. H. WILSON,
JAMES B. SHEA,
GEORGE A. SMITH.

You will also find here, a statement relative to the age of this tree as submitted by Professor Irving W. Bailey of the Bussey Institute of Harvard University.

HARVARD UNIVERSITY
BUSSEY INSTITUTION FOR RESEARCH IN
APPLIED BIOLOGY

FOREST HILLS, BOSTON, MASSACHUSETTS

January 29, 1924.

*Mr. John F. Donnelly, Superintendent of Cambridge Parks,
City Hall, Cambridge, Mass.*

DEAR SIR:

The following is a brief summary of my observations and conclusions concerning the age of the Washington Elm:

The only method of determining the age of a tree—in cases where reliable methods concerning the date of planting are not

available—is to count the annual growth layers in a cross section of the stem, cut just above the level of the ground. There are two common sources of error in making such determinations: (1) so-called “false rings,” i. e., two growth layers formed during the single growing season, and (2) omission of rings, particularly in old or very slow growing plants.

The basal portions of the Washington Elm were badly decayed, but the radius of fairly sound wood was obtained in a disk cut 30 inches above the level of the ground. At this level, the stem had formed 203 growth layers—202 actually counted, plus one at the centre which had decayed. There was no evidence of “false rings” or of rings having been omitted prior to the death of the stem.

The tree was more than 203 years old, however, for it is essential to allow (1) for the interval of time taken by the seedling in growing to a height of 30 inches and (2) for the interval which elapsed between the date when the stem stopped growing and that at which the tree was felled. Allowing for these variables, my estimate is that the tree was at least 204 years old and probably not more than 210. In 1775, the diameter of the stem, at 30 inches above the level of the ground, was at least 24 inches.

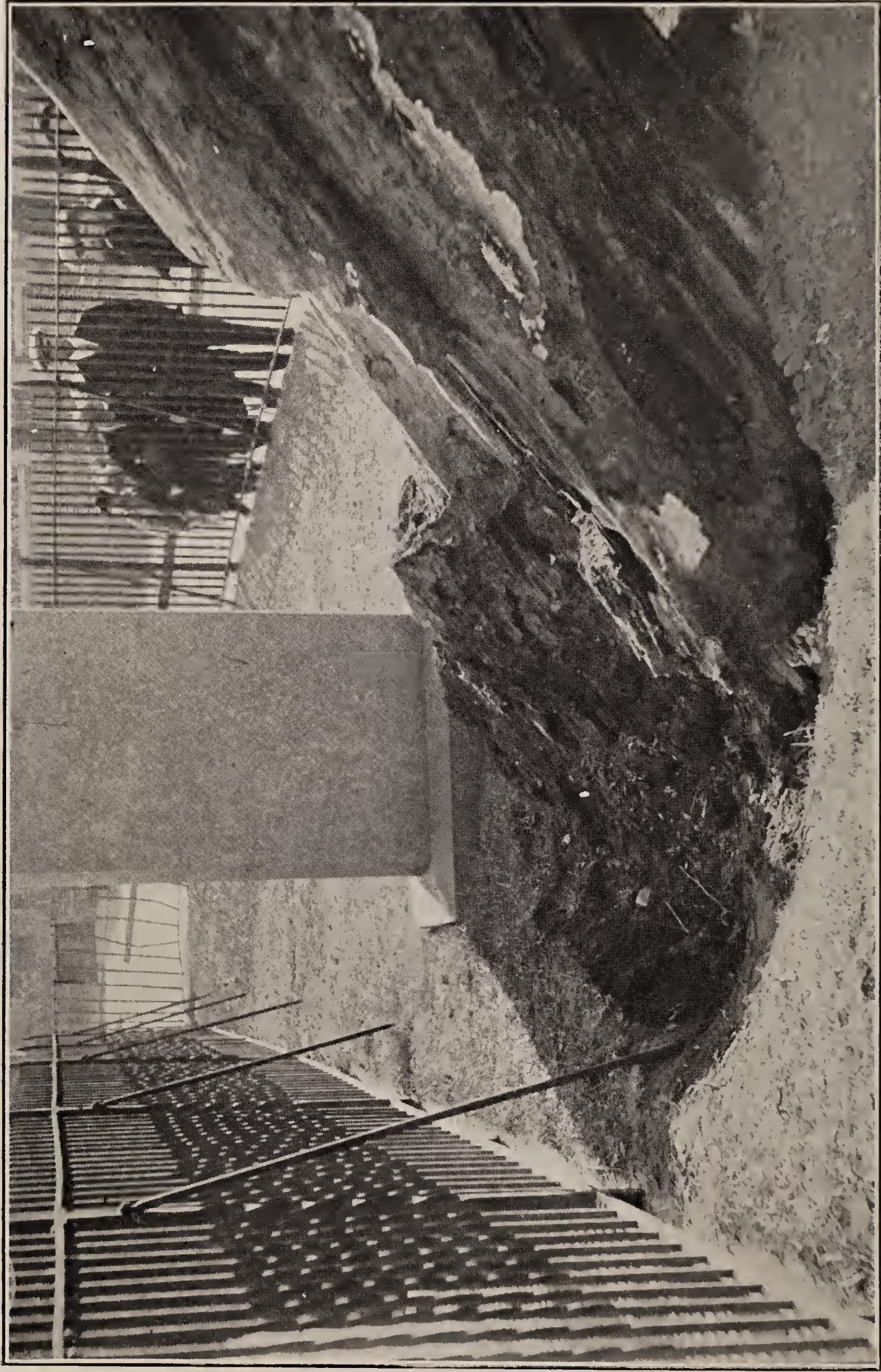
If any of the Historical Societies, etc., desire more accurate information, it might be obtained by the following procedure. Unusual climatic conditions tend in certain cases to produce similar effects upon the growth of all trees in a given region. By cross referencing with living elms, it might be possible to determine the exact dates when certain of the rings in the Washington Elm were formed. Using these as a basis, it would be a simple matter to date all of the rings in the disk, including the 1775 ring, and to determine the exact age of the tree.

In view of these facts, it is desirable that the disk, from which the measurements were made, should be preserved in some museum or collection, in order that it may be available for future reference.

Yours very truly,

I. W. BAILEY.

At the suggestion of His Honor, Mayor Quinn, your Board voted to have the trunk of the tree sawed into small pieces, each



WASHINGTON ELM—OCTOBER 27, 1923
Showing Condition of Trunk When Tree Fell

one of which was to bear a suitable inscription. One piece was to be sent to each State in the Union, the balance to be distributed to any person or society who might make application for same.

At this writing, 56 pieces are all packed in boxes ready for shipment to the States and our possessions. These pieces average about 6 inches deep and 20 inches square. Six hundred smaller pieces are ready for delivery to the general public.

No one regrets more the passing away of this ancient relic, under which the Father of our Country took command, 148 years ago, than does the writer, whose connections with this historic tree date back as far as 1887. In 1892 under the direction of Professor Sargent, sections of the decayed wood were removed; underground irrigation was installed, the loam space enlarged and each year thereafter every possible precaution which might tend to prolong its life has been taken, but as stated heretofore the end was inevitable in spite of the earnest efforts which had been put forth.

FORESTRY

Some of our shade trees are decaying very rapidly, particularly the old elms. This can be accounted for, to some extent, by changing conditions, such as, erection of buildings close to the City line, leaving no space in which the roots might spread; the new macadamized streets which carry all the water to the sewers permitting very small quantities to go the roots of the trees. These facts, taken in conjunction with the electric wires overhead, and the gas system underneath, make us wonder how we are able to cultivate and maintain as many trees as we have been successful in doing.

The appropriation allotted for this work is insufficient to enable us to give our trees the attention and care which they require if we hope to be successful with them.

There were three hundred trees planted.

Sufficient wire was purchased for the making of 300 guards.

300 cedar poles were purchased.

122 dead trees were removed.

14 additional trees moved by vote of the Board, at the request of citizens.

453 trees trimmed.

MOTHS

All the street trees were sprayed for protection against the Elm Leaf Beetle, and trees on twenty-seven private estates received similar attention.

During the winter months 2787 estates were treated for the Brown Tail and Gypsy Moths. I am glad to report that these two pests are well under control, the total amount of Brown Tail Moths discovered being 65, and the Gypsy Moths, 130. Moths, 130.

Respectfully submitted,

JOHN F. DONNELLY,

General Superintendent of Parks.

Cambridge, March 31, 1924.

To the Board of Park Commissioners:

I have the honor of submitting to your Board my first report as Superintendent of Recreation. It shall be my purpose to recount briefly some of the accomplishments of the new Division of Recreation during the first year of its existence, to comment on conditions which affect recreation, and to make recommendations which in my opinion will afford better facilities for the people of Cambridge.

The inauguration of a municipal division devoted exclusively to the promotion of the wholesome use of leisure time has stimulated the members of the community to take advantage of the added facilities which have been provided for their benefit. It is obvious, however, that further steps must be taken to make the department function in such a way that it will afford means of recreation of many kinds and to all classes. In brief, the recreation movement in Cambridge must proceed with caution, always mindful of the future development of the city and its people in order that we may provide well for this phase of the social welfare of the citizens of the future.

Because of the inauguration of a year-round recreation system, it seemed desirable at the outset to place the new department on a sound basis by attempting to establish contact

with the members of the community and to demonstrate the usefulness of the new department to them. Accordingly, most of the undertakings of the year just closed have been conducted with a view to giving publicity to the recreation division and to prompting the people to make use of its resources. It seemed desirable also to utilize agencies and conditions which were already provided rather than to lean too much toward the creation of new ones. Therefore, the contacts which had been established with the schools and various organizations throughout the city were made stronger through close co-operation between these groups and the Recreation Division. I do not mean to infer that there have been no new undertakings. On the contrary, while attempting to lay a firmer foundation with the materials already furnished, there has also been an effort made to provide additional facilities for the enjoyment of the people.

The time is now at hand for taking a vigorous forward step toward the objectives which we seek. With the size and type of our city in mind, there are many things which can be undertaken for the recreational benefit of the citizens and the consequent physical, moral, social and civic results. In the course of this report I shall touch upon the undertakings referred to above.

The year-round recreation program in this city can be divided into the following sections:

1. Summer playgrounds.
2. After-school and Saturday supervision of play.
3. Bathing and wading facilities.
4. Provisions for winter sports.
5. Indoor activities.
6. Special community activities.
7. Activities in co-operation with other agencies.

SUMMER PLAYGROUNDS

This feature of the year's work was already well established and well conducted in Cambridge. In fact, as has been the case in most cities, the institution of summer playgrounds has been the first step toward the larger year-round recreation program. In the summer of 1923, therefore, effort was made to use the improved resources and facilities of the department in conducting additional playgrounds and extending the period of summer

supervision. Fifteen (15) areas were supervised from the close of school in June until the reopening in September. Saturday supervision was added on all of these playgrounds, and on Cambridge, Rindge, Thorndike and Russell E. Hoyt fields supervision was provided every evening and on Sunday afternoons. The last named undertaking afforded opportunity for increased enjoyment by the adults of the community, and the success of the first year has demonstrated that no feature of the recreation program will ever eclipse in popularity or render greater service to the community than the twilight period of supervised play during the summer months.

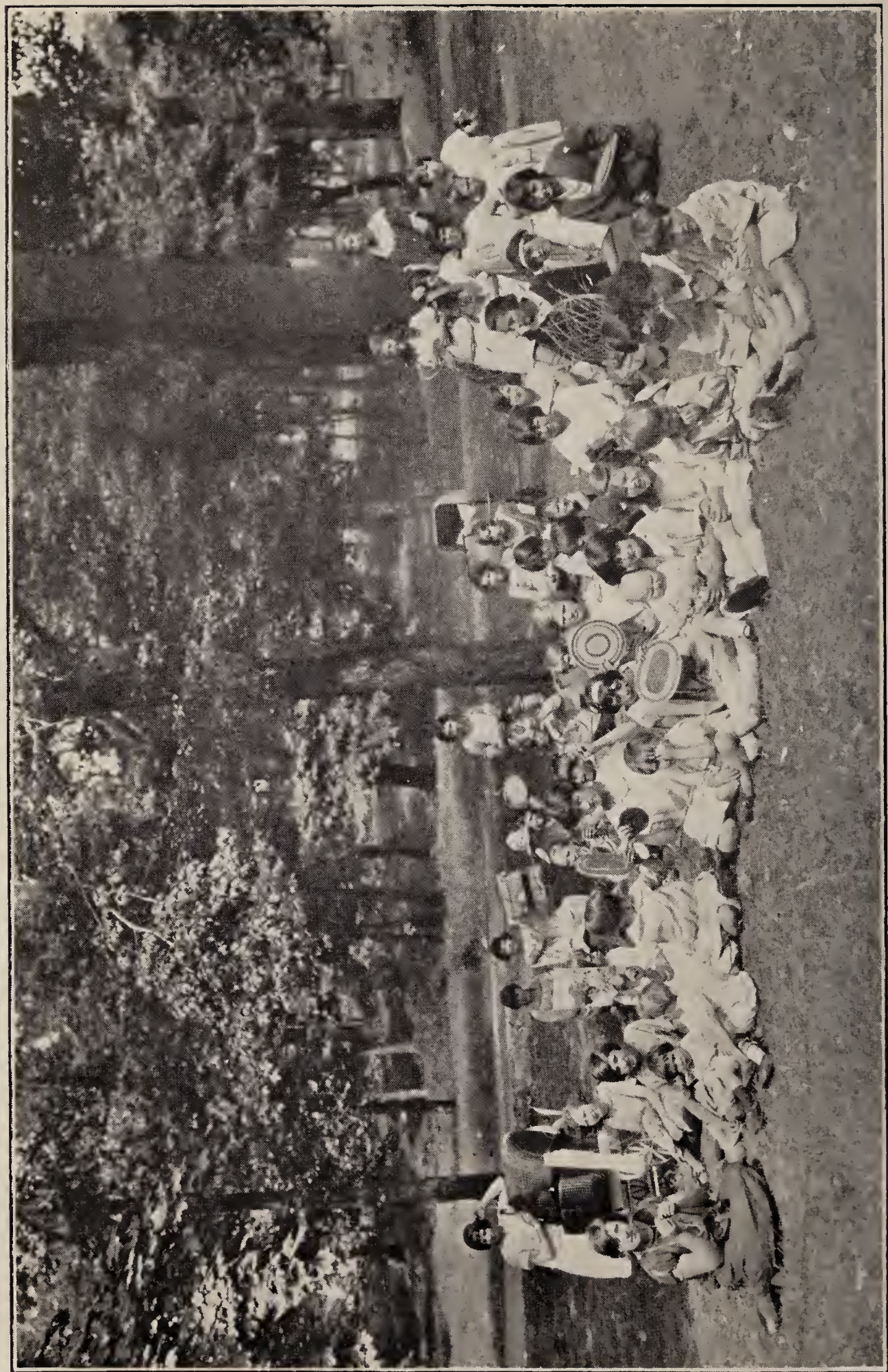
All of the usual attendant features of summer playgrounds were conducted. These included the organization of leagues in baseball, playground ball, and bat ball for boys, girls, young men and young women; a dancing program for the girls throughout the city; and instruction in various kinds of handwork under a competent supervisor. At the close of the summer season a demonstration of playground features was held at Russell Field. Approximately 3,000 children from the fifteen playgrounds participated and a large group of adult spectators was in attendance. An exhibit of the handwork made during the season was displayed in show windows in several sections of the city during the final week of the summer.

I do not recommend any radical changes in the conduct of supervised play during the summer season. In another section of this report I shall comment upon the need of extending supervision to other places in the city.

AFTER-SCHOOL AND SATURDAY SUPERVISION OF PLAY

One of the first steps taken in the year-round program was the inauguration of supervised play in the spring and fall. The success of summer playgrounds had long since warranted the institution of supervision at other times of the year. A further reason for placing the playgrounds in Cambridge under supervision after school hours is the early closing hour of the grammar schools.

Although the plan was tested for the first time in 1923, I am convinced that we should continue to operate the playgrounds at all periods of the year when weather conditions are favorable.



HAND WORK GROUP AT DIVINITY FIELD

If summer playgrounds have justified their existence, it appears that there is even greater need for supervision during the leisure hours within the school year. There are probably more children remaining within the city limits during the school year than during the vacation period, and the necessity for relaxation is greater. It is the intention of the department to continue supervision during the spring and fall periods, and if possible, to extend this supervision to a greater number of grounds.

BATHING AND WADING FACILITIES

In addition to the bathhouse at Magazine Beach, which is under the supervision of the Metropolitan District Commission of the State, two bathing places were maintained by the Park Department—the bathing beach at Gerry's Landing and the Floating Bathhouse located in the Charles River Basin near Commercial Avenue. The former was well patronized by both adults and children of both sexes, despite the fact that the physical equipment for bathing is very inadequate. There is great need of a modern bath house for the use of women and girls at this location, the portable building which has been used during the last few seasons being unsuitable for the purpose. Other desirable improvements would be the grading of the river bank and the placing of additional seats. At the time of writing this report the State Legislature is considering a bill which would extend the parkway known as Memorial Drive from its present terminus at Mount Auburn Street to join the Lowell Parkway. If this measure is enacted it will undoubtedly necessitate an alteration of the plans for Gerry's Landing Beach, but whatever the outcome of the present situation, the Board should strenuously and tenaciously insist upon a continuance of bathing facilities at this location. The Floating Bath House in East Cambridge, after several years of usefulness, was at the close of 1923 in poor condition. To make provision for the accommodation of the men and boys who patronize this bathing place, considerable repairs must be made this spring.

In the budget of the Park Department for 1924 there was submitted an item for the installation of a wading pool on Cambridge Field. If acquired this will prove a boon to the children of the district. I suggest that as soon as finances permit similar

pools be constructed at Rindge Field and Russell E. Hoyt playground.

During the extreme warm weather, the Recreation Division operated two street shower sprinklers from the hydrants throughout the city. The popularity of these sprinklers warrants the construction of others for the coming summer in order that each section of the city will be amply supplied, thus avoiding the necessity for transporting the apparatus over the whole city area.

WINTER SPORTS

During the past year effort was made to increase the facilities for outdoor recreation during the winter months. New areas were flooded for skating and a few new hockey rinks were added and others illuminated, but the unusually mild weather during the early half of the winter prevented these facilities from being used as much as was anticipated. However, the equipment is available for other seasons, and with additional facilities which can be provided, will afford good opportunity for the enjoyment of skating in the future. I suggest that a larger skating area be provided on Cambridge Common and a hockey rink located there. More skating surface should be provided also at the Russell E. Hoyt playground. The flood lighting arrangement for the small skating rinks at the Roberts and Merrill School yards was a decided success and should be continued. In fact, the success of this form of lighting prompts the suggestion that the same lights be utilized during the summer and fall in order to provide for evening play activities which could be conducted on these and other grounds in the city.

Cambridge is not so fortunate as other New England communities in the possession of natural slopes which afford opportunity for coasting during the winter months. This form of recreation has become exceedingly popular in our climate, and almost every community of any size has made provision for coasting for both children and adults. Because of the scarcity of natural facilities it appears that if we are to provide for this feature of winter sports we must get the maximum use out of whatever natural advantages we possess and then supplement the natural facilities with artificial ones. Consequently, I recommend that before the advent of another winter the Board of Park



COASTING SLIDE AT CAMBRIDGE FIELD

Commissioners request the Mayor and City Council to designate certain streets in the city as available for coasting within certain hours, and that these designated places be protected and supervised in order to insure safety. The Recreation Division stands ready to take the initiative and to provide the supervision if this recommendation is accepted. At the present time there are some few vacant lots in our city which possess inclines which would be suitable for use by children during the coasting season. I suggest that if any legal restrictions can be waived some of these areas be supervised by this department in order to provide additional coasting opportunity.

There is no doubt in my mind that the erection of a large municipal toboggan slide in this city is both desirable and necessary. Such a slide would accommodate hundreds of people and would provide exhilarating outdoor recreation during a period of the year when most of the active athletic games and sports cannot be enjoyed. Cambridge is at present one of the large cities of New England which do not possess such a toboggan slide. During the past winter small coasting platforms were erected at Cambridge and Rindge Fields for the use of the smaller children of these districts. The popularity of these slides warrants the furnishing of similar equipment for at least three or four other areas in the city.

I respectfully submit the suggestions contained in this section of my report as being worthy of special consideration, as I feel that it is a prime requisite of a year-round recreation system to stimulate and encourage participation in recreative enjoyment during those seasons of the year in which the members of the community have been accustomed to remain inactive.

INDOOR ACTIVITIES

An essential part of the year-round recreation system is the provision for indoor activities, particularly during the fall and winter seasons. A beginning was made during the winter of 1923-24 by the establishment of recreation centers in the Thordike and Agassiz Schools. The former building is better adapted for the purpose than any of the other school buildings in the city, and consequently afforded better opportunity for developing center activities. This center was in operation two evenings

each week during the winter months and was very well patronized. The program for men included basket ball and gymnasium games, boxing classes, quoit tournaments, musical clubs, and card and other games. In addition, several neighborhood gatherings were conducted at which a program of motion pictures, musical numbers, folk dancing, and social dancing was conducted. The Agassiz School Center was opened rather late in the season and its development was therefore slower. This building was used mostly as a meeting place for Boy Scout troops and other similar groups.

The experiment of the past year justifies the inauguration of a more extensive provision for this type of recreation. From a careful study of conditions, and taking into consideration the geography of the city, I would urge the establishment of at least four recreation centers in Cambridge, preferably in North Cambridge, East Cambridge, Cambridgeport, and Old Cambridge. Unfortunately, the one drawback in providing such places is the lack of housing accommodations for the same. The school building is the natural focal point for a recreation center, but most of the buildings erected in the past were not planned with this type of use in mind. The addition now being built on the Russell School will remedy this defect as far as one section of the city is concerned. I suggest that your Board exert its influence with the proper departments in order that future school construction may give due consideration to recreational facilities. In the meantime, if we are to provide for the present it will be necessary to operate a few centers in buildings, which, while unsuited for the purpose, will at least serve as a gathering place for the people of the respective districts. In addition to providing the above-named recreation centers, I believe that it is the proper function of this department to encourage and foster the organization of groups for civic or social purposes, and if need be assist in securing accommodations for the same.

I desire to place special emphasis on the suggestions made for adult indoor recreation, because repeated instances are becoming manifest where the lack of such facilities as recommended above is in no small way responsible for many of the social evils of our time. In addition, these centers afford excellent opportunity for developing a better community spirit; they serve as mediums through which civic undertakings or municipal



FINAL HEAT IN JUNIOR GIRLS' RACE

activities can be brought to the attention and interest of the people; they provide a social intercourse and neighborly spirit in a most informal way; in brief, they furnish for the community an agency of social welfare whose efficacy is equal, if not superior to that of any of the other agencies existing for the purpose.

Not the least important undertaking of the Recreation Division has been the formation of children's dancing classes throughout the city. This feature, which had its origin during the summer playground season, is attracting from three to four hundred children weekly. The classes are conducted after school hours in six of the grammar school buildings, under the direction of a permanent dancing instructor. Not only have the children enjoyed participation in the group dancing, and benefited by the physical exercise and grace afforded, but in addition, they have brought pleasure to others of the community by the presentation of programs exhibiting their accomplishments. Besides the demonstration given at the close of the summer playground season, groups of children have paid visits to hospitals and other institutions in the city and have presented programs on "Mother's Days" and other neighborhood occasions.

SPECIAL COMMUNITY ACTIVITIES

Under this caption are treated such undertakings or projects as are not usually or necessarily included under the headings above. During the summer of 1923, the Recreation Division arranged a series of outdoor park shows on the four largest grounds in the city. These entertainments attracted a total attendance of approximately 16,000 people at a cost of slightly over 2c per person. I strongly urge a continuance of this kind of program. A swimming carnival and program of water sports was conducted at Gerry's Landing on the afternoon of Labor Day, which afforded pleasure and entertainment to several hundred spectators in addition to a large group of participants and contestants. This event can be conducted on a more elaborate scale in the future and should be a fitting close to the bathing season at Gerry's Landing. A series of neighborhood entertainments was conducted during the summer in school houses adjacent to some of the playgrounds. At these entertainments the

children of the playgrounds presented pageants, concerts, or dramatic performances for audiences composed of adults of the locality. I have already referred to the neighborhood meetings which were conducted in connection with the Thorndike Recreation Center during the winter months.

There is a wide field open for the promotion of many other projects which would furnish recreation for the people of our city. With the establishment of more recreation centers, opportunity would be provided for various community social gatherings. I hope that in the near future a choral society can be organized in Cambridge which will afford pleasure to lovers of music, and at the same time be a means of bringing together a large number of citizens for mutual recreation. In a similar manner it may be possible to organize groups which would derive pleasure from instrumental music, and in the not far distant future we may be able to form a municipal orchestra or municipal band. Another possibility is the establishment of a dramatic organization.

From an outdoor standpoint, one of the finest assets to the city's recreation facilities would be a municipal golf course. The popularity of this game among all classes of people justifies a municipality in making provision for its enjoyment in the same way as it has in the past provided for participation in baseball, football, and other sports. I respectfully suggest that the Board of Park Commissioners make an effort to secure the use of the land surrounding Fresh Pond for this purpose. The natural advantages of this location make it unnecessary to spend a large sum of money for laying out a golf course, and even if other uses are planned for this area at some future date, much pleasure would be afforded from the golf course in the meantime. Another source of enjoyment to thousands of our citizens would be the provision for a series of municipal band concerts throughout the city. The only obstacle to this feature of our recreation program at present is the lack of sufficient finances.

Since children's gardening is a project closely allied with other activities of this department, I recommend that consideration be given as to the advisability of including garden supervision within the scope of the Recreation Division.

ACTIVITIES IN COOPERATION WITH OTHER AGENCIES

The very nature of a recreation department demands that it come in contact with other agencies in the community which are devoted to various kinds of social welfare work. Since other departments of the city also touch upon activities which are closely related to those of the Recreation Division, there are occasions when cooperation means much toward the success of any particular undertaking. It has been the pleasure of the Superintendent of Recreation to work in conjunction with these other agencies on several occasions during the past year. Without attempting to enumerate all of these joint undertakings, I cite the close relationship maintained with the Department of Physical Training in the public schools, the accommodation rendered the Board of Health in its publicity of the Schick test, the assistance rendered the Massachusetts Humane Society and American Red Cross in providing swimming instructions during the summer months, the cooperation afforded the Junior Red Cross in conducting a municipal Christmas tree observance, and the provision made for quarters for Boy Scouts.

With the growth of the Recreation Division the opportunity for joint service with other agencies becomes more apparent. In fact, it is a fundamental theory of the recreation movement that the coordination of existing agencies for public enjoyment is one of the main features of the undertaking. Accordingly, this department welcomes the opportunity to work in conjunction with any organization or group of individuals toward the attainment of a mutual objective. As illustrations of this type of cooperation I advance the possibilities that lie ahead in joining forces with industrial organizations, municipal departments, the Y. M. C. A., Boy and Girl Scout troops and numerous other organizations.

RECREATIONAL FACILITIES

As time proceeds the Recreation Division should gain much by establishing a permanency of supervision. Since the greatest asset to a recreation system is a well-trained staff of supervisors, it will be the aim of the department to train workers, who by a knowledge of the respective districts and experience gained in the work, will assist in developing the recreation program.

There are in the city some few areas whose improvement

for playground purposes has been considered by the Board. I refer to the playground at the junction of Upland Road and Raymond Street, the Corporal Burns playground on Flagg Street, and the lot adjacent to the Lowell School. The early completion of the plans for these playgrounds is desired. There is need for at least one other small children's play lot in East Cambridge. Some time ago I presented for the consideration of your Board, the possibility of placing a supervisor on the small playground which has been laid out by the John P. Squire Company on Gore Street. Whether it shall be the disposition of the Board to utilize this area, or to provide accommodations elsewhere in the district, I am of the opinion that this section of the city will not be amply cared for until additional small playgrounds are acquired. The district above Harvard Square from Massachusetts Avenue to the Somerville line should be provided with a play space for children. The effort made last year to conduct a playground in the yard adjacent to the Agassiz School did not produce the desired results because of the limited space available. Some time in the future provision must be made for a playground in this locality, and I believe that the matter should be given consideration by the Board. I suggest that for the present a request be made to the officials of Harvard University for the use during the coming summer of a portion of the land known as Divinity Field.

At the present time, with the exception of Russell Field, which is used primarily for school athletics and events where admission is charged, there are only four municipally controlled areas in the city which are suitable for adult athletics. The size of the city and the ever increasing demand for greater facilities for adult recreation make it necessary to provide for the future. In addition to the improvements under consideration, the growth of the city will require a large playground in the vicinity of Ward 5. Contrary to popular belief that playground provisions are not consistent with industrial growth, I am of the opinion that recent developments demonstrate an opposite view. Industrial recreation now plays a large part in the activities of our communities, and despite the apparent loss of available industrial sites, the benefits returned to the community from such sacrifices are inestimable. Accordingly, I recommend for the consideration of your Board the location of a playground in



STREET SPRINKLER IN OPERATION

Ward 6 and the possibility of reserving a section of "the front" for play purposes.

The future of Cambridge requires the reservation of some large area within the city limits as a general recreation ground. The city is unusually fortunate in possessing such an area in the land around the Reservoir at Fresh Pond. In an earlier section of this report, I have referred to the possibility of a golf course at this location. This is but one of many features which could be introduced to develop this area into a municipal reservation where almost every kind of recreational undertaking could be conducted. The natural advantages of the place really invite this kind of use. It will not be necessary to develop the entire project immediately, but if the proposed plan meets with the favor of the Board, it will be advisable to confer as soon as possible with the Water Board relative to the proposition. I fully realize the need of safeguarding this area against the dangers which might effect pollution of the water supply, but I believe the value of the undertaking would warrant such precautions. Another site which offers unusual opportunity for development along similar lines is the lot controlled by the Metropolitan District Commission on the river front, formerly known as Captain's Island. The City of Cambridge should not be content until it has succeeded in convincing the Metropolitan District Commission that this area should be graded and developed as a large recreation plot for the members of the community.

In a previous section of this report, I have made reference to the needs of the city for buildings suitable for recreational activities. In addition to the need of accommodations in some school buildings, I desire to offer other suggestions as being appropriate for the advantage of our recreational undertakings. A city of this size should possess at least one municipal building, containing an auditorium, a swimming pool, recreation rooms and similar accommodations. Such a building could be utilized to the fullest extent in Cambridge for municipal and civic undertakings, mass meetings, celebrations, community dramatics, and the like. I suggest that the Board take the initiative in moving toward the securing of such a building, giving due consideration to the possibility of including in the plans for such a structure provisions for use by other departments and organizations. The proposed building on Russell E. Hoyt playground will be a wel-

come addition to our facilities. A good solution of the problem of indoor accommodations in North Cambridge would be the location of a larger building to replace the present structure on Rindge Field. Such a building, if equipped with a large hall for basket ball and similar games, because of its surroundings would provide at this location an ideal center for every type of recreation.

I shall but briefly comment on other improvements or changes which would be desirable. The many athletic activities at Cambridge Field warrant the erection of bleachers there for the accommodation of the spectators. The play space on Broadway Common is far too inadequate for the children of the district. With a large school but a short distance away and no other large playground near at hand, more room should be provided at this area. The play space now supervised at Fresh Pond could be much improved by grading the ball field, thus providing an additional diamond for the use of adult teams.

I suggest also, that consideration be given to the matter of illumination of some of the areas at least. Adequate lighting would allow supervision during evening hours and thus increase the usefulness of the play spaces. Aside from the viewpoint of utility, improved lighting would be an asset to the appearance of the recreation grounds.

RECOMMENDATIONS

In the course of this report I have brought forward some suggestions and recommendations, the fulfilment of which would, in my opinion, mean much to the people of our city. For the sake of clearness I shall now briefly restate those propositions which would require consideration or action by your Board.

The early completion of the so-called Raymond Street playground, and the enlarging of the Corporal Burns and the Lowell School grounds.

Consideration of locating additional play areas in East Cambridge and in Wards 5 and 6.

The establishment of a municipal golf course.

Conferring with the Mayor and Water Board relative to the utilization of the area around Fresh Pond for community recreation purposes.



BABY SWING SECTIONS AT CAMBRIDGE FIELD

Conferring with the Metropolitan District Commission relative to extensive improvements at Captain's Island.

Provision for a series of municipal band concerts.

Erection of a municipal toboggan slide.

The designation of certain streets for coasting.

The establishment of additional recreation centers in the city.

Improvement of the bathing facilities at Gerry's Landing.

Additional wading pools on the larger playgrounds.

Including the supervision of children's gardening within the scope of the Recreation Division.

The erection of a centrally located municipal building to be utilized for recreational and other civic purposes.

Erection of bleachers at Cambridge Field.

Consideration of enlarging play space at Broadway Common.

Grading the ball field at Fresh Pond.

Improved lighting of grounds.

CONCLUSION

At the close of my first year of association with the Park Department, I desire to express appreciation for the cooperation received from the Chairman and members of the Board of Park Commissioners. Acknowledgment is also given for the assistance rendered by the General Superintendent of Parks, and the Clerk of the Board. It is a pleasure for me likewise to state that other administrative branches of the municipal government have been most accommodating in the assistance rendered. The fine spirit of association shown by the officials of outside agencies has also added much to the pleasure of initiating year-round recreation in Cambridge.

The present status of recreation in Cambridge owes much to the foresight of those officials who in past years made provision for playgrounds. In like manner, it is fitting that the future welfare of our citizens be insured by securing those facilities which in later years will be much more difficult to obtain.

It has long been recognized that parks and playgrounds, gymnasia, bathing beaches, swimming pools, and similar facilities, do much toward aiding the health and enjoyment of the members of a community. At the present, moreover, there are other aspects of the recreation movement which are coming more and more to the front. The congestion of our modern cities, the passing of the vacant lot, and the ever-increasing problem of traffic, make the safety of both children and adults a matter of concern. To emphasize this situation I need but call to your attention the recent report of the Massachusetts Safety Council, in which statistics show that the City of Cambridge heads the list in the number of children injured in traffic accidents in 1923. While we do not maintain that supervised recreation will eliminate all danger in the future, is it not reasonable to argue that ample provision for play in places reserved for the purpose will greatly reduce the casualties of the streets?

Within the past few weeks it was the duty of a judge in a New York Court to sentence to the electric chair four young men who had been convicted on the charge of murder. Upon passing sentence this jurist took occasion to make the following remark:

“Tens of thousands of boys are nightly on our streets looking for amusement, seeking adventure, yearning for companionship. Many of them have no fathers, and the parents of many others give little or no heed to the places their boys visit or the companions they choose. Do we men owe no duty to these boys? Can we longer remain blind to the perils that beset them? Should we not provide places where such boys may meet and play, and be entertained and instructed, and all the time be under the influence of the men of the right kind?

The seriousness of the situation which prompted this comment acts as a challenge to the officials of organized society everywhere. It likewise furnishes a further incentive to those of us who have the task of planning and providing for the wholesome recreation of our fellow members of the community.

With the possibilities that lie ahead in the recreational field almost limitless, and with the physical, moral and social welfare of her citizens so intimately involved, the City of Cambridge is in a position to plan well and build enduringly for the future.

ATTENDANCE

	Spring and Summer Season	Total
Agassiz School	1,245	
Broadway Common	16,484	
Cambridge Common	8,201	
Cambridge Field	98,886	
Corporal Burns	7,038	
Fresh Pond	15,689	
Merrill School	9,863	
Morse School	4,331	
Peabody School	3,655	
Rindge Field	39,688	
Roberts School	11,413	
Russell E. Hoyt Field	45,454	
Sleeper School	5,151	
Thorndike Field	57,797	
Wellington School	3,716	
	<hr/>	328,611
Floating Bathhouse	33,843	
Gerry's Landing	46,010	
	<hr/>	79,853
	Fall and Winter Season	
Cambridge Common	1,816	
Cambridge Field	31,003	
Rindge Field	11,798	
Russell E. Hoyt Field.....	14,204	
Thorndike Field	16,647	
	<hr/>	75,468
School dancing classes—fall and winter..	4,649	
Recreation Center activities.....	3,505	
	<hr/>	8,154
Grand Total		<hr/> 492,086

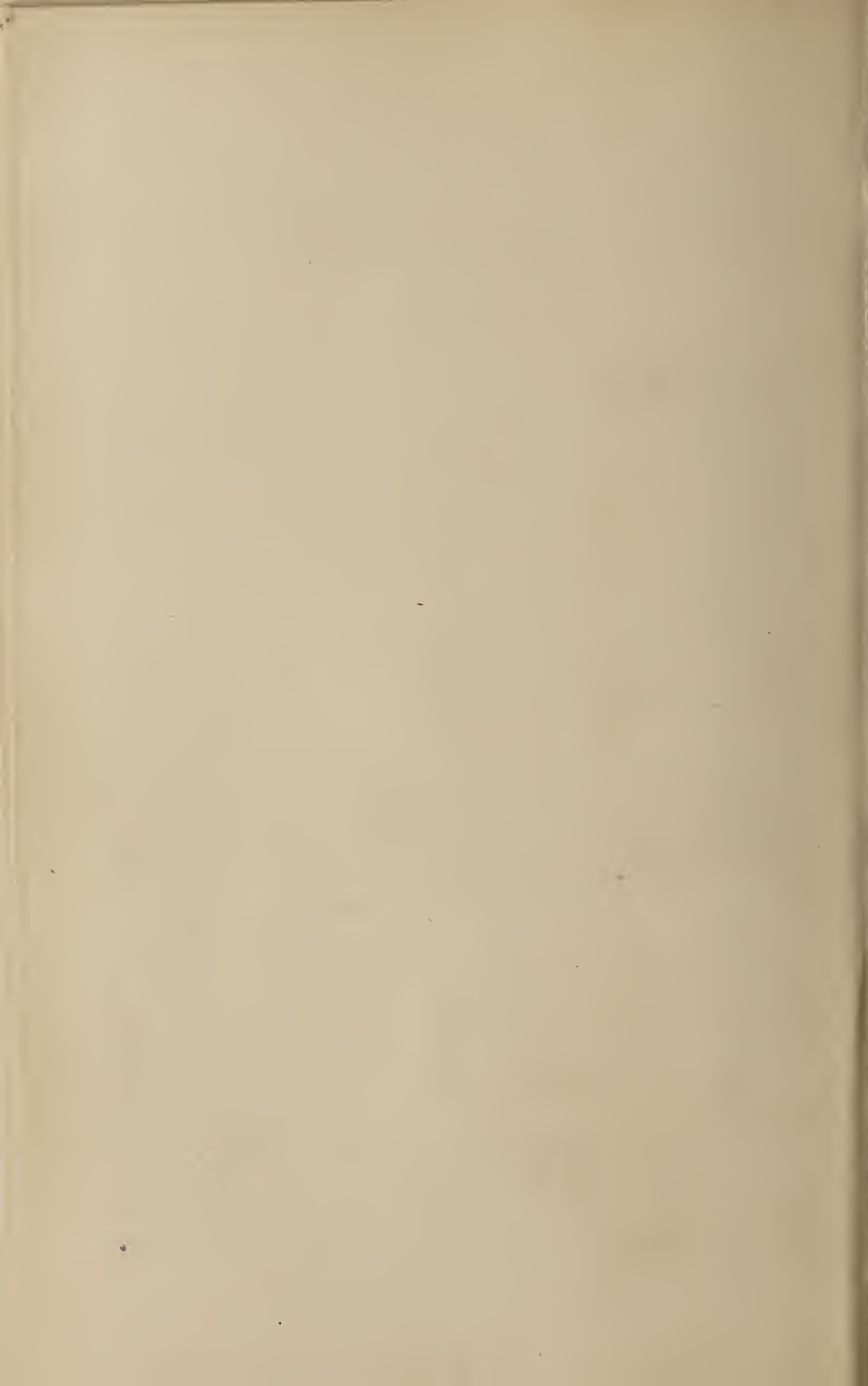
PERMITS ISSUED

April, 1923-April, 1924

Baseball	400
Football	64
Hockey	39

Respectfully submitted,

STEPHEN H. MAHONEY,
Superintendent of Recreation.



FIFTY-SEVENTH ANNUAL REPORT OF THE CITY ENGINEER—1923-1924.

To the Honorable, the City Council:

The City Engineer hereby submits his annual report, being the fifty-seventh of the department, showing the operation and expenditures of the Engineering and Sewer Departments for the year ending April 1st, 1924.

A brief summary of the work of the Engineering and Sewer Departments for the year is as follows:

FOR HIGHWAY DEPARTMENT

Number of surveys made.....	5
Number of street lines given.....	75
Number of grades given.....	91
Number of streets on which paving, curbs, etc., were measured	81
Number of assessments prepared	214
Number of plans and profiles prepared.....	20
Number of cars of Street Department material measured.....	0

FOR SEWER DEPARTMENT

Number of surveys made.....	14
Number of lines given.....	120
Number of grades given.....	160
Number of sewers measured.....	18
Number of plans and profiles prepared.....	18

FOR WATER DEPARTMENT

Number of lines given.....	7
Number of surveys made.....	0
Number of plans and profiles prepared.....	6
Number of grades given.....	11

FOR LAW DEPARTMENT

Number of plans prepared.....	22
Number of surveys made.....	45
Number of photographic negatives made.....	80

FOR PARK DEPARTMENT

Number of surveys made.....	7
Number of lines given.....	15
Number of grades given.....	25

FOR CEMETERY DEPARTMENT

Number of surveys made	1
------------------------------	---

MISCELLANEOUS WORK

Number of circuit bench levels.....	2
Number of houses measured.....	471
Number of plans, profiles, tracings, etc., prepared.....	60
Number of surveys made.....	2
Number of lines given.....	70
Number of grades given.....	80
Number of photographic negatives made.....	16

There are on file in this office 13,839 plans.

FINANCIAL

Engineering Department

SALARIES

Appropriation	\$12,871.48
Expended	12,194.00
Balance	677.48

OTHER EXPENSES

Appropriation	806.52
Expended	806.52
Balance	000.000

In addition to and including the above amount charged to salaries of Assistants, there has been expended and charged to the departments as follows:

To Assessors' Plans.....	
To Sewer Department.....	1,969.00
To Water Works Department.....	
To salary of City Engineer.....	3,500.00
To salaries of Assistants.....	8,694.00
Total	\$14,163.00

CLASSIFICATION OF SALARIES OF ASSISTANTS

Accidents—Surveys, plans and court attendance for Law Department	288.76
Accounts	648.94
Assessors' Plans—Surveys, measurements and work on Block Plans for Assessors' Department	1,208.39
Bridges—Surveys, plans, examinations and estimates	853.54
Cemetery—Surveys and plans setting out lots at Cambridge Cemetery	342.42
Highways—Surveys, levels, plans, estimates, measurements and assessments for Highway Department; also lines and grades given for private parties	3,332.98
Location plans	224.25
Miscellaneous—Unclassified work for committees and departments, vacations and sickness	1,621.47

Parks—Surveys, lines, grades, plans and estimates for Park Department	60.37
Sewers—Lines, grades, plans, estimates, accounts, measurements and assessments for Sewer Department	1,972.61
Sidewalks—Estimates, measurements, titles and assessments for Highway Department	53.68
Water Works—Surveys, lines, grades, plans and estimates for Water Works Department	55.59
Total	<hr/> \$10,663.00

BRIDGES

First Street Bridge

As reported in the Annual Report for 1922-1923, the contract for the foundation, piers and approach spans of the bridge was awarded to the William L. Miller Company on September 29th, 1922, and the company has now completed their portion of the work in a very satisfactory manner.

Work upon the draw span, machinery, etc., given to the Boston Bridge Works, Inc., has been greatly delayed, partly by inability to get steel material from the steel mills in the spring of 1923, but possibly more by the failure of the company to whom was sub-let the furnishing of the operating machinery to make deliveries as required. The whole work was held up for several months for this cause.

The bridge is now practically completed and in working order and the paving on the approaches is now being put in and the bridge is expected to be opened for traffic in a week or two. The total expenditure for this work to date has been \$99,663.05.

Sixth Street Bridge

The closing of the First Street Bridge so long has brought a heavy strain on the two old wooden bridges at Sixth Street and Third Street.

Plans are now being prepared for a new bridge of steel and concrete at Sixth Street which it is hoped to put on the market at an early day for construction during the coming season. Meanwhile it will be necessary to keep the Third Street Bridge in service until it too can be replaced with a more modern structure.

The other bridges will require only the usual maintenance repairs.

STREETS LAID OUT AND ACCEPTED APRIL 1, 1923, TO APRIL 1, 1924

LOCATION OF STREET					PLAN		
Street	From	To	Length in Feet	Width in Feet	Date of Acceptance	Made by	Date
Longfellow Rd. Alberta Ter.	Mt. Auburn Mass. Ave.	Northerly Cedar St.	330 270	35 35	June 21, 1923 May 21, 1923	G. F. Hooker W. A. Mason & Son Co.	June, 1923 Nov. 1922
Gray Gardens East	Garden St.	Raymond St.	{ 565-178 150 400+or—	40-24 }	July 7, 1923	Bay State Surveying Co.	June 8, 1923
Gray Gardens West	Garden St.	Northerly		Various	July 7, 1923	Bay State Surveying Co.	June 8, 1923
Alden Road	Broadway	Chatham	245	35	July 7, 1923	W. A. Mason & Son Co.	April 1923
Blakeslee St.	Huron Ave.	Southerly	320	40	July 7, 1923	W. A. Mason & Son Co.	Oct. 20, 1921
Blakeslee St.	Reservoir St.	Easterly	234	40	July 7, 1923	W. A. Mason & Son Co.	March, 1922
Newell St.	Upland Rd.	Walden St.	401-190	40-30	Dec. 29, 1923	G. F. Hooker	Dec. 4, 1923
Hawthorne Av.	Huron Ave.	Fresh Pond Parkway	1,038	45	Mar. 7, 1924	W. A. Mason & Son Co.	June, 1910
Length of accepted streets March 31, 1923.....					109.020 miles		
Accepted in 1923.....					.818 "		
Length of accepted streets March 31, 1924.....					109.838 "		
Length of unaccepted streets March 31, 1924.....					16.345 "		
Total mileage open for travel.....					126.183 "		

SEWERS CONSTRUCTED BETWEEN APRIL 1, 1923, AND APRIL 1, 1924

Street	From	To	Material	Size in Inches		Number of				Av. Dp. in Ft.	Length in Feet			Cost		Time when work was	
				Combined	Storm	Sani- tary	Man- holes	Lamp- holes	In- lets		Combined	Storm	Sanitary	Per Foot	Total	Begun	Finished
Alden Road	Broadway	Chatham St.	Akron Pipe	.....	10	8	.....	2	32	8.0	.....	228.2	229.7	8.83	2030.17	Aug. 27, 1923	Sept. 11, 1923
Bristol St.	Portland St.	W'ly	Akron Pipe & Concrete	.....	52x60	12	1	.....	43	13.8	.....	252.5	215.5	53.09	13407.55	Sept. 11, 1923	Nov. 30, 1923
*DeWolfe St.	Cowperthwaite St.	Charles River	Concrete & Wood	.....	32x36	.....	.....	.....	.....	8.0	.....	258.0	.....	24.52	6329.38	Nov. 8, 1922	May 26, 1923
Eighth St.	Thorndike St.	S'ly	Akron Pipe	10	.....	.....	.....	1	10	7.2	141.5	.....	.....	7.06	999.24	July 9, 1923	July 23, 1923
Haskell St.	S. of Rindge Ave.	N'ly	" "	12	.....	.....	1	1	9	10.0	284.5	.....	.....	10.77	3065.49	May 26, 1923	Aug. 14, 1923
Hawthorne Ave.	Huron Ave.	S'ly	" "	.....	15	8	.....	.....	14	10.2	.....	134.0	145.0	17.19	2492.88	Dec. 7, 1923	Jan. 3, 1924
Longfellow Road	Mt. Auburn St.	N'ly	" "	.....	12	8	2	.....	36	9.8	.....	347.2	362.2	15.73	5689.14	June 5, 1923	July 30, 1923
Mt. Auburn St.	Aberdeen Ave.	W'ly	" "	.....	12	8	.....	2	8	10.9	.....	243.5	210.5	18.70	4553.67	Nov. 26, 1923	Jan. 7, 1924
Sparks St. Ct.	Sparks St.	E'ly	" "	.....	10	8	.....	2	24	8.8	.....	164.7	166.6	11.50	1916.23	Apr. 6, 1923	May 5, 1923
Vassar St.	W. of Main St.	W'ly	Akron Pipe & Concrete	{	20x24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
				.....	18x18	10	3	.....	101	12.7	.....	840.4	840.4	21.79	18314.78	Apr. 1, 1923	Sept. 29, 1923
				.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Vassar St.	Fowler St.	W'ly	Akron Pipe	.....	12	8	.....	2	18	13.8	.....	199.1	202.1	22.26	4498.92	Oct. 2, 1923	Nov. 26, 1923
Webster Ave.	Near Clark St.	Hampshire St.	" "	.....	15-12	8	1	.....	40	9.6	.....	225.7	225.7	27.49	6205.58	Aug. 6, 1923	Sept. 19, 1923

*Auxiliary outlet.

1897

1. 1st of Jan. 1897
2. 1st of Feb. 1897
3. 1st of March 1897
4. 1st of April 1897
5. 1st of May 1897
6. 1st of June 1897
7. 1st of July 1897
8. 1st of Aug. 1897
9. 1st of Sept. 1897
10. 1st of Oct. 1897
11. 1st of Nov. 1897
12. 1st of Dec. 1897

1. 1st of Jan. 1898
2. 1st of Feb. 1898
3. 1st of March 1898
4. 1st of April 1898
5. 1st of May 1898
6. 1st of June 1898
7. 1st of July 1898
8. 1st of Aug. 1898
9. 1st of Sept. 1898
10. 1st of Oct. 1898
11. 1st of Nov. 1898
12. 1st of Dec. 1898

1898

PAVEMENT STATISTICS

Statistics of pavements laid in the City to date are as follows:

STATISTICS OF PAVEMENTS LAID IN THE CITY TO APRIL 1, 1924, ARE AS FOLLOWS:

Kind	Length in Miles			Area in Square Yards		
	Laid in 1923	Removed in 1923	To Date 3/31/24	Laid in 1923	Removed in 1923	To Date 3/31/24
Granite Block	None	None	12.053	None	None	308,374
Vitrified Brick	None	None	2.929	None	None	57,541
Wood Block.....	None	None	3.685	None	None	86,617
Bitulithic	2.667	None	20.701	40,401	None	421,249
Tar Macadam	2.233	None	37.640	33,940	None	592,182
Macadam	None	1.859	32.526	None	32,163	303,025
Amiesite .....	.252	None	.252	3,946	None	3,946
Totals	5.152	1.859	109.786	78,287	32,163	1,772,934

In addition to the above:

Harvard Bridge—Wood Block.....	0.185 miles	5,512 square yards
Cambridge Bridge—Granite Block.....	0.161 miles	4,044 square yards
Charles River Dam—Granite Block.....	0.106 miles	5,469 square yards
Anderson Bridge—Wood Block.....	0.041 miles	978 square yards

MOSQUITO SUPPRESSION

Work on the suppression of mosquitoes was begun April 7th, 1923, and continued until September 8th, 1923, when owing to the exhaustion of the appropriation, it became necessary to discontinue the work.

Owing to the favorable conditions of weather, more satisfactory results in reducing the number of mosquitoes were obtained this season than has hitherto been possible.

Mosquito breeding on lands within the city limits was very greatly reduced, the principal sources of the supply seeming to be the areas to the west and southwest of the city. An effort is now being made to interest the adjoining municipalities in this matter with a view to having greater cooperation from all parties who may be affected and possibly obtain the assistance of the state.

The appropriation for the work was \$3,000.00.

	Expended	
Labor	\$2,080 86	
Team hire	645 00	
Oil	193 88	
Gasoline	37 05	
Miscellaneous	40 42	
	<hr/>	\$2,999 21
Balance		\$ 79

GENERAL SEWER CONSTRUCTION

The total length of sewer conduit constructed during the year was 1.030 miles, making a total mileage in the City of 167.810 miles. The length of streets newly sewered during the year has been 0.495 miles, making the total mileage of streets sewered with one or more conduits 123.798 miles.

The total cost of sewer construction to date has been \$2,999,302.42.

Sewers have been built upon streets as shown by the annexed schedule.

CATCH BASINS

Catch basins with wooden covers.....	255
Catch basins with sidewalk flagging	1,068
Catch basins with cast iron "D" frames.....	1,001
Catch basins with miscellaneous covers	65
	<hr/>
Total number of catch basins in the City.....	2,389

20 new catch basins have been built during the year at a total cost of \$5,303.01.

69 catch basins have been repaired during the year at a cost of \$2,000.57.

2436 cubic yards of material have been removed from 1181 catch basins during the year at a cost of \$12,649.75.

19 persons have been licensed during the year as drain layers.

Permits have been granted for sewer repairs or construction as follows:

For repairs	72
For connection to sanitary sewers	81
For connection to combined sewers	102
For connection to storm sewers	75
<hr/>	
Total number in the city.....	330

A total number of 258 permits for connections and 72 for repairs.

CLASSIFIED SCHEDULE OF SEWERS AS BUILT TO APRIL 1, 1924

Vitrified and cement pipe.....	109.104 miles
Brick	48.751 "
Miscellaneous materials	3.313 "
Wood .....S.....	2.821 "
Cement concrete	3.507 "
Iron pipe	0.314 "
<hr/>	

Total length of sewer conduit constructed to date..... 167.810 miles

MAINTENANCE

Appropriation	\$33,180 00
Expended	35,673 02
<hr/>	
Deficit	\$2,493 02

Expended

Catch basin repairs.....	\$2,000 57
Catch basin cleaning	12,649 75
Cleaning and repairing gates.....	2,759 80
Cleaning sumps	176 25
Cleaning and flushing sewers.....	312 76
Manhole repairs	328 52
General expense	12,914 32
Sewer repairs	2,671 53

Garage and yard expense	1,111 19
Office	748 33
Total expenditure	\$35,673 02

SEWER CONSTRUCTION ACCOUNT

Appropriation	\$105,081 63
Expended	91,126 76
Balance	\$13,954 87

Expended

New catch basins	\$5,303 01
General expense	5,535 20
Vassar Street Sewer at Main Street.....	18,314 78
Bolton Street Sewer.....	1,063 19
Sparks Street Place Sewer.....	1,916 26
DeWolf Street Sewer Outlet.....	2,268 33
Vassar Street Sewer at Amesbury Street.....	90 60
Haskell Street Sewer.....	3,065 49
Spring Street Sewer.....	283 01
Longfellow Road Sewer.....	5,689 14
Eighth Street Sewer.....	999 24
Webster Avenue Sewer.....	6,205 58
Alden Road Sewer.....	2,030 17
Bristol Street Sewer.....	13,223 75
Vassar Street Sewer at Fowler Street.....	4,498 92
Mt. Auburn Street Sewer at Aberdeen Avenue.....	4,696 83
Hawthorne Avenue Sewer.....	2,492 88
Griswold Street Sewer	8,018 02
Normandy Avenue Sewer.....	5,432 36

Total Expenditures for 1923-1924.....	\$91,126 76
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Revenue

Sewer assessments	\$5,520 09
Sundry receipts (Maintenance).....	
Total	\$5,520 09

METROPOLITAN SEWER TAX

Appropriation	\$157,828 01
Sinking Fund Requirements	\$35,848 65
Interest Account	53,244 04
Maintenance and Operation.....	63,076 25
Maturing Serial Bond.....	5,659 07

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, AT HOBBS BROOK BASIN IN WALTHAM, AT CITY HALL CAMBRIDGE, AND AT BAKER'S BRIDGE, LINCOLN, FOR 1923

	JANUARY				FEBRUARY				MARCH				APRIL				MAY				JUNE				JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER									
Day of Month	Stony Brook	Hobbs Brook	City Hall	Baker's Bridge	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	S. B.	H. B.	C. H.	B. B.	Day of Month									
1	0.76	0.45	0.47	0.57	0.07	0.08	0.07		0.17			0.05																																		1								
2	0.75	0.80	0.37		0.04	0.05	0.04																																								2							
3	0.62	0.70	0.33	0.75	0.33	0.36	0.33	0.35						0.03			0.02								0.15	0.06	0.17																					3						
4																																																	4					
5	0.35	0.45	0.17	0.15			0.14		0.25	0.23	0.15	0.07	1.50	1.50	1.72	0.80									0.01																								5					
6								0.15					0.03																																				6					
7	1.45	1.79	1.68	1.20	0.30	0.30	0.08		1.05	0.97	0.63	0.68	0.03	0.05	0.03	0.60					1.05	1.03	0.90		0.56	0.48	0.67	0.50		0.27	0.37	0.30	0.39		0.03													7						
8	0.16	0.19	0.15										0.18	0.16	0.15						0.23	0.22	0.20	1.25																									8					
9	0.19	0.22	0.18	0.40	0.37	0.39	0.18	0.15	0.14	0.10	0.07	0.08					0.12	0.16	0.15	0.15	0.06	0.06	0.05	0.16																									9					
10																																																		10				
11	0.40	0.37	0.33	0.44							0.47						0.45	0.45	0.35	0.33																														11				
12																																																				12		
13	0.27	0.28	0.20	0.30	0.12	0.13	0.07	0.05	0.31	0.45		0.29																																						13				
14	0.13	0.14	0.10										0.54	0.40	0.68	0.42					0.02																													14				
15									0.62	0.56	0.57	0.55	0.07	0.07	0.12	0.42	0.08	0.05	0.05	0.09					0.70	0.75	0.70	0.65		0.29	0.21	0.28	0.25																15					
16																																																				16		
17																																																				17		
18									0.09	0.08		0.04																																									18	
19																																																				19		
20	0.08	0.10	0.05																																																	20		
21	0.45	0.50	0.40	0.97													0.55	0.30	0.34	0.24																															21			
22	0.55	0.54	0.50	0.10																																															22			
23																	0.38																																		23			
24	0.80	0.77	1.10				0.02		0.18	0.09	0.15	T	0.05	0.09	0.18	0.25					0.12	0.07	0.10	0.06																										24				
25	0.13	0.08	0.16	0.98																																																25		
26						0.14	0.03																																															26
27																																																					27	
28	0.11	0.06	0.08	0.10		0.15	0.15	0.35			T	T	0.60	0.63	0.70	0.56																																				28		
29													1.20	1.33	1.45	1.15					0.65	1.12	0.30	1.18																										29				
30											T	T	0.81	0.81	0.90	1.20																																				30		
31									0.34			0.03									0.34																																31	
Total	7.20	7.94	6.27	5.96	2.03	2.41	1.71	1.40	3.74	3.10	2.54	2.44	5.07	5.28	6.13	5.13	1.03	1.21	0.87	1.28	2.63	2.67	2.07	2.97	3.54	3.08	3.89	2.91	1.70	1.54	3.25	1.75	0.98	1.33	0.45	1.54	4.23	4.51	3.95	4.75	4.99	4.86	3.57	4.60	5.02	5.33	4.60	5.48	Total					

TABLE OF THE PHYSICAL PROPERTIES OF THE ELEMENTS

ELEMENT			ATOMIC WEIGHT			DENSITY			FUSION POINT	BOILING POINT	CRITICAL POINT
Symbol	Name	Atomic Number	Symbol	Name	Atomic Number	Symbol	Name	Atomic Number			
H	Hydrogen	1	He	Helium	2	Li	Lithium	3	15.7	2537	2543
B	Boron	5	C	Carbon	6	N	Nitrogen	7	-210	-196	-127
O	Oxygen	8	F	Fluorine	9	Ne	Neon	10	-249	-246	-246
Na	Sodium	11	Mg	Magnesium	12	Al	Aluminum	13	933	2743	2843
Si	Silicon	14	P	Phosphorus	15	S	Sulfur	16	444	2844	3109
Cl	Chlorine	17	Ar	Argon	18	K	Potassium	19	336	1043	1508
Ca	Calcium	20	Sc	Scandium	21	Ti	Titanium	22	1668	3568	3695
V	Vanadium	23	Cr	Chromium	24	Mn	Manganese	25	1547	2831	3123
Fe	Iron	26	Ni	Nickel	28	Cu	Copper	29	1083	2835	3000
Zn	Zinc	30	Ga	Gallium	31	Ge	Germanium	32	938	2833	3093
As	Arsenic	33	Se	Selenium	34	Br	Bromine	35	265	332	588
Kr	Krypton	36	Rb	Rubidium	37	Sr	Strontium	38	1050	2837	3081
Y	Yttrium	39	Zr	Zirconium	40	Nb	Niobium	41	2750	3550	3696
Mo	Molybdenum	42	Tc	Technetium	43	Ru	Ruthenium	44	2710	3698	3800
Rh	Rhodium	45	Pd	Palladium	46	Ag	Silver	47	1327	2813	3000
Cd	Cadmium	48	In	Indium	49	Sn	Tin	50	231.9	260.2	326.7
Hg	Mercury	80	Tl	Thallium	81	Pb	Lead	82	327.3	601.0	917.5
Bi	Bismuth	83	Po	Polonium	84	At	Astatine	85	302	609	900
Fr	Francium	87	Ra	Radium	88	Ac	Actinium	89	900	1462	1612
Th	Thorium	90	Pa	Protactinium	91	U	Uranium	92	1132	2850	3121
Np	Neptunium	93	Pu	Plutonium	94	Am	Americium	95	1363	2810	3273
Cm	Curium	96	Bk	Berkelium	97	Cf	Californium	98	1345	2858	3300
Es	Einsteinium	99	Fm	Fermium	100	Mn	Mendelevium	101	1312	2800	3200
Fl	Flerovium	114	Uu	Ununium	115	Uub	Unbibium	116	1340	2800	3200
Uut	Ununtrium	115	Uuq	Ununquadium	116	Uuh	Ununhexium	117	1340	2800	3200
Uuq	Ununquadium	116	Uuh	Ununhexium	117	Uuo	Ununoctium	118	1340	2800	3200
Uuh	Ununhexium	117	Uuo	Ununoctium	118						

Table Showing the Comparison by Months of the Precipitation at Stony Brook Basin, Hobbs Brook Basin, Baker's Bridge and City Hall; Also the Number of Days in Which Rain Fell at City Hall in 1923

Point of Observation	1923												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Stony Brook Basin	7.20	2.03	3.74	5.07	1.03	2.63	3.54	1.70	0.98	4.23	4.99	5.02	42.16
Hobbs Brook Basin	7.94	2.41	3.10	5.28	1.21	2.67	3.08	1.54	1.33	4.51	4.86	5.33	43.26
Baker's Bridge.....	5.96	1.40	2.44	5.13	1.28	2.97	2.91	1.75	1.54	4.75	4.60	5.48	40.21
City Hall	6.27	1.71	2.54	6.13	0.87	2.07	3.89	3.25	0.45	3.95	3.57	4.60	39.30
Number of days in which rain fell at City Hall	16	11	9	11	5	8	7	6	7	8	8	14	110

The Engineering Department is organized as follows:

City Engineer

LEWIS M. HASTINGS

Principal Assistant

GEORGE DAVIS

Assistants

RAY L. COOLIDGE, Office Assistant and Draftsman

G. FRANK HOOKER, in charge of street work

EDGAR W. DAVIS, in charge of sewer work

Transitman

EDWARD SMITH

Rodman

WILLIAM H. MCGINNESS

Clerk and Stenographer

GENEVIEVE G. HANNON

Superintendent of Sewers

THOMAS P. O'NEILL

Respectfully submitted,

L. M. HASTINGS,

City Engineer.

ANNUAL REPORT OF THE CHIEF OF THE FIRE DEPARTMENT

To His Honor the Mayor and City Council,
Gentlemen:—

In compliance with the provisions of Section 6 of the City Ordinance concerning the Fire Department and fires, I respectfully submit my annual report of the Fire Department for the year ending March 31, 1924, containing a record of fires with the cause thereof so far as could be ascertained, a statement of damage, insurance and insurance paid, a roll of members and duty performed, also the condition of the apparatus and buildings, and all other property controlled by this department, with recommendations in reference thereto which will in my judgment tend to increase the efficiency of the department.

The total number of alarms of fire for the year from all causes, was:

Bell Alarms	653
Still Alarms	559
Total	1,212

The total losses, together with the insurance and the insurance paid, were as follows:

	Losses	Insurance	Insurance Paid
Buildings	\$177,603 11	\$3,546,534 60	\$163,554 61
Contents	182,890 13	2,683,465 67	169,949 14
	<hr/> \$360,493 24	<hr/> \$6,230,000 27	<hr/> \$333,503 75

GENERAL EXPENSES

Salaries	General Expense
\$321,015 45	\$19,985 00

ORGANIZATION

Eight (8) engine companies; four (4) ladder companies; one (1) combination hose and chemical company, and one (1) straight chemical company.

MANUAL FORCE

Consists of one hundred and seventy permanent men.

APPARATUS

The apparatus consists of one (1) 1000 gallon triple combination auto pumping engine; three (3) 750 gallon triple combination auto pumping engines; two (2) 750 gallon combination auto pumping engines; two (2) tractor drawn steam fire engines; three (3) aerial ladder trucks; one (1) city service truck; five (5) combination hose and chemical wagons, and one (1) three tank chemical engine. All are motor driven. Two automobiles, one for the Chief and one for the Deputy Chiefs.

IN RESERVE

Two (2) steam fire engines; one (1) 750 triple combination auto pumping engine; one (1) combination hose and chemical wagon; three (3) city service ladder trucks and one (1) straight chemical with 2-60 gallon tanks. All of the above with the exception of the 750 gallon triple combination auto are horse drawn. There is also one Chief's auto in reserve.

APPARATUS PURCHASED DURING YEAR

During the year one new Buick five passenger automobile was purchased to take the place of an automobile that had been in service seven years, and was used by the Chief.

HOSE

The total amount of serviceable two and one-half inch cotton rubber lined hose now in use by the several companies is 19,450 feet, and 2,500 feet of three quarter inch rubber chemical hose.

HOUSES

The houses now used are in fairly good condition, but I would recommend that action be taken immediately to put the buildings in such condition that they will conform to the laws governing such places where automobiles are kept.

I again renew my recommendation that a new building be built to house the apparatus now located in the Brattle Square Building. I do not consider the present building fit or safe for the apparatus now housed there.

I also renew the recommendation that I have been making from year to year that a suitable building be erected on the land owned by the City on Portland Street adjoining the Ladder House, the same to be used as a repair shop so that the work of repairing the apparatus can be properly done. The present repair shop, in Engine No. 5 House, Inman Square, is altogether too small to carry on the work required.

CONCLUSION

To His Honor the Mayor and City Council, I desire to tender my sincere thanks for their hearty co-operation during the past year. I also desire to thank the officers and members of the Department for the prompt and efficient manner in which they have performed their duties, which are of exceptionally hazardous calling. I also wish to thank the Fire Alarm Department and Police Department, and all others who either by deed or expressed thought have shown an appreciation of the work of the Fire Department.

Very respectfully,

JAMES M. CASEY,
Chief of Department.

FIRE DEPARTMENT ROSTER

Chief.....	James M. Casey
Deputy Chief.....	Cutler L. Vose
Deputy Chief.....	Albert R. Wait

Captain	Master Mechanic.....	William J. Reilly
Engineer.....	Ass't Mechanic.....	Hugh J. Powers
Civilian Mechanic.....		Joseph P. Flynn

Lieutenant.....	Chief's Clerk.....	James J. Clifford
Private.....	Chief's Chauffeur.....	George A. Regan
Private.....	Chief's Chauffeur.....	Geo. E. Blomquist
Private.....	Chief's Chauffeur.....	David J. Ryan
Private.....	Chief's Chauffeur.....	Henry E. Findley

ENGINE CO. NO. 1

Captain.....	Daniel E. Shea
Lieutenant.....	Timothy F. McCarthy
Engineer.....	Thomas H. McCourt
Ass't Engineer.....	Hiram W. Hooker
Private.....	Wm. A. Anderson
Private.....	Henry A. Cutting
Private.....	Leo A. Deihl
Private.....	Francis R. Jefferson
Private.....	George A. Ryan
Private.....	James J. Fitzgerald
Private.....	John W. Connelly
Private.....	Joseph B. Higgins

ENGINE CO. NO. 2

Captain.. ..	John H. Dardis
Lieutenant.....	Henry J. O'Brien
Engineer.....	Chas. A. Cairns
Ass't Engineer.....	Patrick J. Hayes
Private.....	Thomas H. Anderson
Private.....	Ed. J. Fitzgerald
Private.....	George H. Friel
Private.....	Thomas L. Galvin
Private.....	John J. Lucey
Private.....	John J. Murphy, No. 2
Private.....	D. J. O'Connell
Private.....	William A. Witham

ENGINE CO. NO. 3

Captain.....	George L. Church
Lieutenant.....	Frank J. Murray
Engineer.....	Wm. L. McCusker
Ass't Engineer.....	James A. Drinkwater
Private.....	Francis J. Belcher
Private.....	William F. Bulger

Private.....	D. J. Holleran
Private.....	Ed. J. Looney
Private.....	John J. O'Callahan
Private.....	Charles F. O'Connor
Private.....	John J. Stanton
Private.....	F. J. Sweeney

ENGINE CO. NO. 4

Captain.....	Arthur L. Marshall
Lieutenant.....	Redmond M. Burke
Engineer.....	John J. Henderson
Private.....	Walter L. Allen
Private.....	William J. Connors
Private.....	William J. Coyne
Private.....	John J. Ford
Private.....	James H. Glennon
Private.....	Thomas J. King
Private.....	Thomas J. Lovett

ENGINE CO. NO. 5

Captain.....	Herman E. Gutheim
Lieutenant.....	Walter E. Chapman
Private.....	William J. Beck
Private.....	Frank A. Casey
Private.....	William J. Curry
Private.....	Jeremiah F. Hayes
Private.....	William G. Johnson
Private.....	John J. Callan
Private.....	Edward E. Gaughan
Private.....	George W. Stevens
Private.....	Timothy F. White
Private.....	Edward T. Murphy

ENGINE CO. NO. 6

Captain.....	Frank M. McGrath
Lieutenant.....	James H. McCabe
Private.....	James B. Burrell
Private.....	Joseph H. Caldwell
Private.....	William F. Campbell
Private.....	John J. Dineen
Private.....	Henry E. Kilfoyle
Private.....	George P. McCusker
Private.....	Thomas F. Mullin
Private.....	John J. Murphy
Private.....	Joseph J. Schuler
Private.....	James P. Welch

ENGINE CO. NO. 7

Captain.....	Thomas F. O'Connell
Lieutenant.....	William J. Atkinson
Engineer.....	Joseph S. Hayes
Private.....	William H. Daley
Private.....	James E. Cunha
Private.....	Frank Foster

FIRE DEPARTMENT

Private.....	Charles H. Leddy
Private.....	Joseph E. McKenna
Private.....	Timothy J. Murphy
Private.....	Cornelius O'Connell
Private.....	Otis D. Powers
Private.....	Gerard A. Coughlin

ENGINE CO. NO. 8

Captain.....	William J. Anderson
Lieutenant.....	Dennis R. Sullivan
Private.....	Charles L. Carrier
Private.....	Frank V. Doyle
Private.....	John J. Flavin
Private.....	William V. Jefferson
Private.....	George E. Lorigan
Private.....	Frank A. Lyshorn
Private.....	John P. Wallace
Private.....	Thomas L. Wilkshire

LADDER CO. N. 1

Captain.....	John D. Shea
Lieutenant.....	Warren A. Dale
Private.....	Charles N. Anderson
Private.....	John J. Balfe
Private.....	James W. Breslin
Private.....	Leo A. Cook
Private.....	Thomas A. Haley
Private.....	James E. Jefferson
Private.....	Thomas W. Lane
Private.....	Eugene L. O'Keefe
Private.....	Edward J. Shea
Private.....	Thomas F. Sullivan
Private.....	Daniel A. Walsh
Private.....	Joseph T. Neves

LADDER CO. NO. 2

Captain.....	Benjamin McArthur
Lieutenant.....	Charles J. McElroy
Private.....	William C. Acford
Private.....	William E. Foley
Private.....	Ursise E. Fournier
Private.....	Michael R. Hayes
Private.....	John J. Kelleher
Private.....	Joseph King
Private.....	Thomas J. Lane
Private.....	Joseph A. McDonald
Private.....	Michael Mullin
Private.....	Joseph Silveria
Private.....	William J. Sullivan
Private.....	Edward T. Tobin

LADDER CO. NO. 3

Captain.....	William C. Richardson
Lieutenant.....	Edward F. Kelley
Private.....	Louis C. Avery

Private.....	Emerill D. Beucler
Private.....	John A. Cardoso
Private.....	William F. Davidson
Private.....	Louis H. Fabry
Private.....	Mortimer F. Hartney
Private.....	William F. McGrath
Private.....	John F. McPherson
Private.....	Daniel P. Moynihan
Private.....	Thomas J. Parks
Private.....	William Quayle
Private.....	Morris A. Skold

LADDER CO. NO. 4

Captain.....	Edward F. Conroy
Lieutenant.....	Thomas H. Drummond
Private.....	John F. Collins
Private.....	Joseph R. Flynn
Private.....	Matthew F. Gleason
Private.....	Frank A. Hanley
Private.....	Joseph W. McCloskey
Private.....	William F. Newman, Jr.
Private.....	Hugh P. Quinn
Private.....	Arthur J. Tremblay
Private.....	Maurice J. Murphy
Private.....	Laurence M. Tarbox

CHEMICAL CO. NO. 1

Captain.....	William F. Newman, Sr.
Lieutenant.....	John Gibson
Private.....	Joseph T. Ballantine
Private.....	Edward L. Kelley
Private.....	Edward A. Malone
Private.....	Edward F. Daisy

COMBINATION CO. NO. 2

Captain.....	Richard J. Doyle
Lieutenant.....	Timothy Curran
Private.....	George H. Carrier
Private.....	Charles P. Cox
Private.....	Lawrence A. Corcoran
Private.....	Michael J. Murphy
Private.....	James H. Sullivan
Private.....	Jeremiah J. Sullivan

CAUSES OF FIRES AND ALARMS

Accidents	10
Automobiles	60
Bonfires	39
Careless use of lighted matches	14
Careless use of lighted cigarettes	79
Careless use of lighted candles	14
Careless use of lighted gasoline	14
Children playing with matches	39
Clothing too near hot stove	6

Christmas trees	2
Curtain against lighted lamp or gas jet.....	11
Dump fires	48
Defective electric wiring in street cars.....	7
Defective electric wiring on telegraph poles.....	25
Defective electric wiring in buildings.....	8
False alarms	139
False alarms from ADT system.....	20
False alarms from Automatic system.....	16
Fat or meat on stove.....	13
Fireworks or firecrackers	9
Freight cars	13
Fumes from inflammable fluids.....	8
Gas or oil leaking from pipe, tube or meter.....	14
Grass or brush fires.....	39
Hot ashes in wooden box or barrel.....	21
Hot flatiron left on table or board.....	6
Kerosene oil stove or lamp.....	5
Leaves on street	7
Lightning	5
Oil stove	14
Open and defective fireplace	13
Overheated stoves or smoke pipes.....	18
Overheated boiler or drying room.....	10
Rekindle	4
Responded to alarms out of city.....	47
Rubbish in building, street or yard.....	29
Rats and matches	8
Set by boys	56
Static electricity	6
Short circuit in motor or flatiron.....	16
Smoke or steam mistaken for fire.....	22
Smoky stoves	48
Sparks from chimney	69
Sparks from furnace or stove	14
Sparks from locomotive	21
Smoking in bed	10
Supposed incendiary	17
Spontaneous combustion	40
Thawing frozen water pipes	7
Unknown	40
Unnecessary	52

REPORT OF THE CHIEF OF POLICE

CAMBRIDGE, MASS., APRIL 1ST, 1924

To His Honor the Mayor and the Honorable City Council.
Gentlemen:—

In compliance with the City Ordinance, I have the honor to submit the Annual report of the Police Department for the year ending March 31st, 1924.

ORGANIZATION OF THE DEPARTMENT

Rank	Salary
1 Chief	\$3,000.00 per year
8 Captains	2,350.00 per year
12 Lieutenants	2,150.00 per year
13 Sergeants	2,000.00 per year
151 Patrolmen	1,825.00 per year
24 Reserve Patrolmen	1,460.00 1st year
	1,680.00 2nd year
	1,825.00 3rd year
1 Policewoman	1,650.00 per year
2 Matrons	14.00 per week

DEPARTMENT ROSTER

Name	Rank	First Appointment
McBRIDE, JOHN J.,	Chief.....	April 27, 1887
BRENNAN, MICHAEL J.,	Captam.....	April 14, 1884
CANNEY, JOHN J.,	Captain.....	May 28, 1901
ELLIS, FREDERICK M.,	Captain.....	Dec. 28, 1897
HURLEY, PATRICK J.,	Captain.....	Oct. 20, 1886
KEANEY, JAMES M.,	Captain.....	Jan. 19, 1881
LEAHY, TIMOTHY F.,	Captain.....	Sept. 6, 1898
MURRAY, JAMES E.,	Captain.....	May 18, 1870
WELCH, EDWARD J.,	Captain.....	Nov. 14, 1893
AYLWARD, RICHARD,	Lieutenant.....	Dec. 30, 1890
ABERLE, CHARLES F.,	Lieutenant.....	April 30, 1895
COADY, THOMAS F.,	Lieutenant.....	April 1, 1902
DONAHUE, JOSEPH J.,	Lieutenant.....	April 26, 1904
GINTY, WILLIAM B.,	Lieutenant.....	March 24, 1903
HALL, JAMES P.,	Lieutenant.....	April 27, 1884
McCORMY, JOSEPH F.,	Lieutenant.....	Sept. 15, 1891
McMENNIMEN, WILIAM H.,	Lieutenant.....	April 21, 1880
MURRAY, PATRICK F.,	Lieutenant.....	April 7, 1884
NEILAN, MICHAEL,	Lieutenant.....	Dec. 28, 1887
POWERS, JOHN F.,	Lieutenant.....	April 26, 1904
WYMAN, CHARLES W.,	Lieutenant.....	May 3, 1898

POLICE DEPARTMENT

Name	Rank	First Appointment
BRADLEY, CHARLES E., Sergeant.....	Sergeant	May 29, 1900
CURTIN, WILLIAM A., Sergeant.....	Sergeant	Jan. 13, 1909
DOUGLASS, ROBERT J., Jr., Sergeant.....	Sergeant	April 26, 1904
HEALEY, PATRICK J., Sergeant.....	Sergeant	May 3, 1904
KELLY, JOSEPH J., Sergeant.....	Sergeant	April 3, 1906
LaMARCHE, FRANK D., Sergeant.....	Sergeant	May 29, 1900
McCAFFREY, BERNARD, Sergeant.....	Sergeant	June 30, 1891
MAHONEY, GEORGE J., Sergeant.....	Sergeant	Dec. 28, 1897
MULVANEY, SIMON J., Sergeant.....	Sergeant	Feb. 23, 1892
NEILAN, JOHN P., Sergeant.....	Sergeant	May 8, 1899
PRESHO, CHARLES H., Sergeant.....	Sergeant	Feb. 4, 1896
SHANNON, JOSEPH H., Sergeant.....	Sergeant	May 4, 1894
WINSLOW, JOHN E., Sergeant.....	Sergeant	Jan. 22, 1889
ACKERLY, JOHN M., Patrolman.....	Patrolman	Dec. 12, 1906
ANDREW, FRANK, Patrolman.....	Patrolman	June 26, 1906
ANDREW, WILLIAM, Patrolman.....	Patrolman	Nov. 3, 1908
BAGAN, JOHN H., Patrolman.....	Patrolman	Oct. 11, 1910
BARRINGTON, GEORGE T., Patrolman.....	Patrolman	May 3, 1882
BATEMAN, WELLINGTON D., Patrolman.....	Patrolman	March 1, 1914
BIGGANE, WILLIAM F., Patrolman.....	Patrolman	April 3, 1906
BOURGET, JOSEPH A., Patrolman.....	Patrolman	Feb. 27, 1912
BREEN, JOSEPH P., Patrolman.....	Patrolman	Nov. 16, 1919
BURKE, THOMAS F., Patrolman.....	Patrolman	April 26, 1904
BURKE, THOMAS F., 2nd, Patrolman.....	Patrolman	Mar. 1, 1914
CAHALANE, JOHN, Patrolman.....	Patrolman	June 20, 1911
CALLAHAN, TIMOTHY F., Patrolman.....	Patrolman	Oct. 24, 1917
CAMPBELL, THOMAS M., Patrolman.....	Patrolman	Oct. 27, 1896
CANNEY, JOHN J., Patrolman.....	Patrolman	June 20, 1911
CARROLL, THOMAS E., Patrolman.....	Patrolman	Nov. 16, 1919
CLEARY, MARK J., Patrolman.....	Patrolman	Oct. 24, 1917
COLLINS, FREDERICK V., Patrolman.....	Patrolman	May 4, 1909
COMERFORD, Edward J., Patrolman.....	Patrolman	July 1, 1890
CONLAN, ANDREW, Patrolman.....	Patrolman	April 3, 1906
COSGROVE, JOHN F., Patrolman.....	Patrolman	Dec. 25, 1917
CRANE, TIMOTHY F., Patrolman.....	Patrolman	Nov. 6, 1903
CROWLEY, JOSEPH J., Patrolman.....	Patrolman	Nov. 16, 1919
CULHANE, ROBERT G., Patrolman.....	Patrolman	July 18, 1903
CUMMINGS, JOHN F., Patrolman.....	Patrolman	May 5, 1908
CURRAN, MICHAEL J., Patrolman.....	Patrolman	May 5, 1908
CURTIN, PATRICK J., Patrolman.....	Patrolman	June 20, 1911
DAVIS, HARRY W., Patrolman.....	Patrolman	July 23, 1901
DEMPSEY, LAWRENCE P., Patrolman.....	Patrolman	June 26, 1906
DIEHL, ANTON B., Patrolman.....	Patrolman	Aug. 8, 1899
DOHERTY, JOSEPH F., Patrolman.....	Patrolman	April 26, 1904
DONOVAN, EDWARD F., Patrolman.....	Patrolman	April 1, 1915
DOW, WARREN H.,*** Patrolman.....	Patrolman	Jan. 1, 1895
DOYLE, PATRICK, Patrolman.....	Patrolman	Jan. 3, 1887
DWYER, EDWARD E., Patrolman.....	Patrolman	May 4, 1909
DYNAN, ANTHONY, Patrolman.....	Patrolman	June 11, 1911
DYNAN, LEO D., Patrolman.....	Patrolman	April 1, 1915
FABRY, FRANK J., Patrolman.....	Patrolman	May 5, 1908
FALVEY, JOHN H., Patrolman.....	Patrolman	Jan. 28, 1914
FALVEY, TIMOTHY S., Patrolman.....	Patrolman	April 1, 1915
FLYNN, WILLIAM, Patrolman.....	Patrolman	Feb. 27, 1912
FOLEY, JOHN J., Patrolman.....	Patrolman	Nov. 16, 1919
GORDON, EDWARD C., Patrolman.....	Patrolman	Dec. 12, 1906
GUTHRIE, JOHN J., Patrolman.....	Patrolman	Mar. 31, 1909
GUTOSKI, FRANK H., Patrolman.....	Patrolman	July 26, 1904

Name	Rank	First Appointment
HACKETT, MORTIMER M.,	Patrolman.....	Nov. 28, 1893
HARNEY, THOMAS,	Patrolman.....	April 1, 1915
HALIDAY, HERBERT,	Patrolman.....	April 1, 1915
HARNEY, WILLIAM,	Patrolman.....	Oct. 31, 1911
HEALEY, MICHAEL,	Patrolman.....	Jan. 31, 1917
HENRY, FRANK S.,	Patrolman.....	May 14, 1909
HOGAN, MARTIN,	Patrolman.....	Mar. 1, 1914
HOLT, JAMES H. H.,	Patrolman.....	Dec. 28, 1887
HUMPHREYS, WILLIAM J.,	Patrolman.....	June 30, 1911
IRELAND, JEROME D.,	Patrolman.....	May 31, 1904
KEANE, CORNELIUS P.,	Patrolman.....	Nov. 16, 1919
KEANE, CLIFFORD L.,	Patrolman.....	July 15, 1921
KELLIHER, JOHN,	Patrolman.....	Dec. 28, 1897
KELLEY, JOSEPH B.,	Patrolman.....	Oct. 24, 1917
KELLEY, Edward J.,	Patrolman.....	Mar. 29, 1918
KELLEY, EDWIN L.,	Patrolman.....	July 20, 1918
KEOUGH, JAMES R.,	Patrolman.....	July 16, 1911
KING, JOHN R.,	Patrolman.....	July 15, 1921
LANDRIGAN, JAMES M.,	Patrolman.....	June 20, 1911
LARGENTON, AUGUSTUS J.,	Patrolman.....	July 18, 1903
LAW, FREDERICK W.,	Patrolman.....	June 30, 1891
LEAHY, DENNIS F.,	Patrolman.....	Feb. 20, 1894
LEARY, THOMAS,	Patrolman.....	Nov. 16, 1919
LINEHAN, RICHARD J.,	Patrolman.....	Oct. 24, 1917
LYNCH, DAVID E.,	Patrolman.....	April 1, 1911
MAHER, P. EDWARD J.,	Patrolman.....	April 1, 1915
MAHONEY, JEREMIAH F.,	Patrolman.....	June 30, 1919
MALLAHAN, CHARLES E.,	Patrolman.....	Mar. 1, 1914
McAULIFFE, THOMAS W.,	Patrolman.....	Mar. 29, 1918
McCABE, EDWARD J.,	Patrolman.....	Apr. 12, 1892
McCANN, CHARLES J.,	Patrolman.....	May 21, 1889
McCARTHY, DENNIS,	Patrolman.....	April 1, 1915
McCARTHY, JEREMIAH H.,	Patrolman.....	April 7, 1886
McCARTHY, PATRICK J., Jr.,	Patrolman.....	April 1, 1915
McCOOL, WILLIAM M.,	Patrolman.....	Jan. 16, 1912
McCREHAN, John E.,	Patrolman.....	April 27, 1884
McCULLOUGH, FRANK C.,	Patrolman.....	Mar. 17, 1913
McCULLOUGH, JOSEPH A.,	Patrolman.....	June 20, 1911
McFADDEN, RICHARD M.,	Patrolman.....	Aug. 8, 1899
McKEOWN, WILLIAM F.,	Patrolman.....	April 12, 1892
McLAUGHLIN, FRANCIS A.,	Patrolman.....	Mar. 21, 1911
McLAUGHLIN, FREDERICK,	Patrolman.....	Feb. 6, 1905
McMAHON, MICHAEL,	Patrolman.....	April 25, 1905
MELLO, MANUEL G.,	Patrolman.....	Oct. 2, 1908
MORRISEY, THOMAS J.,	Patrolman.....	Mar. 1, 1914
MOYLAN, PATRICK E.,	Patrolman.....	June 26, 1906
MULLALLEY, JOHN T.,	Patrolman.....	May 5, 1908
MULLEN, ROBERT E.,	Patrolman.....	Nov. 14, 1893
MULLIN, WILLIAM T.,	Patrolman.....	Dec. 12, 1911
MULQUEENEY, JOHN P.,	Patrolman.....	April 26, 1910
MULVIHILL, JOHN F.,	Patrolman.....	Mar. 1, 1914
MURPHY, EDWARD L.,	Patrolman.....	April 1, 1915
MURPHY, PETER J.,	Patrolman.....	April 26, 1904
NIXON, WILLIAM L.,	Patrolman.....	Nov. 16, 1919
NORMILE, MICHAEL C.,	Patrolman.....	Mar. 26, 1912
O'BRIEN, DENNIS W.,	Patrolman.....	April 6, 1912
O'BRIEN, JOHN J.,	Patrolman.....	April 26, 1904
O'CONNELL, CHARLES P.,	Patrolman.....	May 4, 1909

Name	Rank	First Appointment
O'DELL, WILLIAM L.,	Patrolman.....	June 10, 1908 .
O'LOUGHLIN, THOMAS F.,	Patrolman.....	June 1, 1914
PARKS, JOSEPH A.,	Patrolman.....	Dec. 28, 1897
PATTEN, GEORGE A.,	Patrolman.....	April 26, 1904
QUIGLEY, CHARLES F.,	Patrolman.....	June 10, 1916
READY, PATRICK F., JR.,	Patrolman.....	Jan. 1, 1916
REAGAN, DANIEL J.,	Patrolman.....	June 10, 1915
REAGAN, JAMES F.,	Patrolman.....	April 26, 1910
RIENDEAU, JOSEPH L.,	Patrolman.....	Mar. 1, 1914
ROBERTS, JOHN W.,	Patrolman.....	Feb. 6, 1900
ROBERTSON, WILLIAM H.,	Patrolman.....	June 30, 1891
ROPER, GEORGE B.,	Patrolman.....	July 5, 1914
ROWE, WILLIAM H.,	Patrolman.....	May 24, 1892
RUSSELL, JAMES D.,	Patrolman.....	April 26, 1910
SHANNON, THOMAS J.,	Patrolman.....	July 26, 1904
SHEA, THOMAS,	Patrolman.....	May 13, 1902
SHEEHAN, CORNELIUS,	Patrolman.....	June 2, 1903
SHEEHAN, JOHN J.,	Patrolman.....	June 2, 1903
STOKES, THOMAS J.,	Patrolman.....	Aug. 1, 1913
SULLIVAN, EUGENE,	Patrolman.....	Oct. 11, 1910
SULLIVAN, CHARLES,	Patrolman.....	Oct. 8, 1922
SULLIVAN, DENNIS,**	Patrolman.....	Feb. 6, 1903
SULLIVAN, JOHN J.,**	Patrolman.....	Dec. 29, 1891
TANSEY, JOSEPH F.,	Patrolman.....	April 3, 1906
TEMPLE, JOSEPH C.,	Patrolman.....	Nov. 17, 1896
TEVLIN, JOHN J.,	Patrolman.....	April 26, 1910
TOOMEY, TIMOTHY,	Patrolman.....	Oct. 24, 1917
TRANT, JOHN J.,	Patrolman.....	July 2, 1921
TURCOTT, AMOS,	Patrolman.....	Mar. 26, 1912
WAITE, ALBERT J.,	Patrolman.....	Nov. 16, 1919
WALSH, DAVID H.,	Patrolman.....	Oct. 25, 1896
WALSH DAVID L.,	Patrolman.....	Aug. 8, 1899
WARD, WILLIAM F.,**	Patrolman.....	Jan. 23, 1908
O'NEIL, FRANKLIN M.,	Patrolman.....	July 20, 1918
McNAMARA, MATTHEW J. F.,	Patrolman.....	July 20, 1918
LYONS, PETER J.,	Patrolman.....	July 20, 1918
MURPHY, PATRICK J.,	Patrolman.....	July 20, 1918
REARDON, JEREMIAH F.,	Patrolman.....	July 20, 1918
DRISCOLL, WILLIAM J.,	Patrolman.....	July 20, 1918
MURPHY, EDWARD J.,	Patrolman.....	Dec. 20, 1918
McCAFFREY, JOSEPH H.,	Patrolman.....	June 10, 1919
DONELAN, CHARLES P.,	Patrolman.....	June 10, 1919
GORMLEY, WILLIAM G.,	Patrolman.....	June 10, 1919
KELLEY, MARK J.,	Patrolman.....	June 10, 1919
BURKE, PHILIP T.,	Patrolman.....	June 10, 1919
BURKE, JOHN T.,	Reserve Patrolman.....	Nov. 5, 1922
DALTON, GEORGE E.,	Reserve Patrolman.....	Nov. 5, 1922
O'NEIL, MARTIN,	Reserve Patrolman.....	Nov. 5, 1922
MENTON, THOMAS F.,	Reserve Patrolman.....	Nov. 5, 1922
FOLEY, JOHN J., 2ND,	Reserve Patrolman.....	Nov. 5, 1922
LINEHAN, CHAS. H., JR.,	Reserve Patrolman....	Nov. 5, 1922
HORAN, JOHN S.,	Reserve Patrolman.....	Nov. 5, 1922
PELLETIER, HENRY E.,	Reserve Patrolman.....	Nov. 5, 1922
KELLEY, RICHARD,	Reserve Patrolman.....	Nov. 5, 1922
FLYNN, JOHN E.,	Reserve Patrolman.....	Nov. 5, 1922
FINNEGAN, JOHN D.,	Reserve Patrolman.....	Nov. 5, 1922
QUINN, JAMES F.,	Reserve Patrolman.....	Dec. 3, 1922
O'CONNOR, JOSEPH,	Reserve Patrolman.....	Dec. 31, 1922

Name	Rank	First Appointment
MURRAY, WILLIAM,	Reserve Patrolman.....	June 8, 1923
LARGENTON, A. L.,	Reserve Patrolman.....	June 8, 1923
WARNOCK, CHARLES R.,	Reserve Patrolman....	July 25, 1923
PAULINE ANTHONY,	Reserve Patrolman.....	Sept. 23, 1923
DONOVAN, HENRY A.,	Reserve Patrolman.....	Sept. 23, 1923
ARTHUR, SAMUEL R.,	Reserve Patrolman.....	Sept. 23, 1923
MAINS, HARRY E.,	Reserve Patrolman.....	Sept. 23, 1923
RICE, JAMES F.,	Reserve Patrolman.....	Oct. 31, 1923
KELLEHER, PATRICK J.,	Reserve Patrolman.....	Oct. 31, 1923
LINEHAN, JOHN F.,	Reserve Patrolman.....	Oct. 31, 1923
KELLEY, GEORGE E.,	Reserve Patrolman.....	Oct. 31, 1923
TAYLOR, J. EDITH,	Policewoman.....	Mar. 5, 1921
BARRON, MARY A.,	Matron.....	May 2, 1919
O'HEARN, MARY,	Matron.....	Nov. 18, 1922

***Appointed as drivers, on February 28, 1917. By special act of Legislature they were appointed patrolmen, February 28, 1917.

- 11 Reserve Patrolmen appointed.
- 4 Reserve Patrolmen appointed patrolmen.
- 3 Patrolmen died.
- 4 Patrolmen resigned.
- 1 Pensioner died.

CHANGES IN THE FORCE

- 11 Reserve officers appointed.
- 3 Reserve officers appointed patrolmen.
- 3 Patrolmen died.
- 2 Reserve patrolmen resigned.
- 1 Patrolman resigned.
- 1 Patrolman removed.
- 1 Reserve patrolman removed.
- 1 Pensioned officer died.

IN MEMORIAM

FRANCIS CURRAN, appointed May 24, 1915; died Oct. 8, 1923.

JOHN J. GRIFFITH, appointed Oct. 20, 1884; died Nov. 19, 1923.

JOHN A. HEZLITT, appointed April 12, 1894; died Sept. 14, 1923.

REPORT OF MISS EDITH J. TAYLOR (Policewoman)

In the work of the policewoman there is an increasing number of reports of cases from social agencies and private individuals. The latter now realize that investigations are made quietly and court action prevented whenever possible.

Patrolmen, as well as the superior officers, ask co-operation of the policewoman more frequently than formerly and this co-operation has been particularly valuable in results of cases worked on with the members of the vice squad.

In one instance the need of a policewoman was felt in a nearby town and her assistance was solicited in a case of grave importance. Acting with authority from the office of the District Attorney the case was cleared up to the satisfaction of all concerned.

Frequently contact with conditions in the home leads to other necessary family adjustments than the case under investigation. For instance a runaway girl has a feeble minded sister with degenerate tendencies. The confidence of the parents is gained with the end in view of remedying these conditions.

As a result of the patrol work and repeated warnings and advice to young girls frequenting the streets, there is a noticeable increase in orderliness of conduct. In certain sections reported to be gathering places for young people who annoyed by disturbance or vulgar speech or actions, the policewoman has observed and warned them. Particular attention is paid to girls apparently under 18 years of age who habitually frequent the streets after 11 P. M. They are quietly approached, questioned and advised. If the advice is ignored, in a case where it seems expedient, the girl's parents are informed of her doings.

A strict watch is kept on dance halls, theatres and skating rink to see that under age girls or children are kept out. In the dance halls, the matrons required by law to be in attendance are splendidly helpful and the managers are now co-operative.

Solicitation by men in automobiles of girls on the streets is also strictly watched for and warnings given.

CASES DEALT WITH THIS YEAR

Number of times assisted physician.....	5
Number of girls taken to clinics for examination and treatment.....	6
Number of maternity cases provided for.....	2
Number of cases of diseases reported.....	7
Calls on account of complaints to police.....	36
Calls on account of complaints to me.....	30
Calls on account of reports of patrolmen to me.....	18
Calls at homes in interest of women or girls.....	25
Visits to dance halls.....	93
Visits to theatres	28
Visits to shops each night they are open	
Warning to shoplifters.....	11
Girls under arrest talked with and advised.....	6
Help given re employment.....	5
Families referred to welfare or other agencies.....	12

Reconciliation effected in families.....	6
Family troubles.....	17
Women reporting trouble with husbands.....	20
Men reporting trouble with wives.....	9
Calls from mothers at station for consultation and aid.....	14
Calls from girls at station for consultation and aid.....	28
Calls from both at my home.....	12
Abused children cared for or referred to S. P. C. C., etc.....	16
Stubborn girls interviewed.....	32
Girls talked to and warned on streets.....	120
Girls sent home (under age or other cause) from dance halls, etc.....	7
Questionable houses investigated.....	3
Cases taken to court for warrants.....	5
Number of arrests made by me.....	3
Men in autos warned re-soliciting girls.....	55
Runaway girls sent home or brought home to Cambridge.....	3

REPORT OF VICE SQUAD BY SERGEANT PRESNO

Number of raids.....	185
Whiskey seized—Gallons.....	560
Alcohol seized—Gallons	82
Beer seized—Gallons.....	22
Wine seized—Gallons.....	1428
Champagne seized—Gallons.....	16
Mixed liquors seized—Gallons.....	905
Brandy seized—Gallons.....	2
Rum seized—Gallons.....	4
Jamaica Ginger seized—Gallons.....	3
Total	3022
Hand bags seized.....	11
Giant copper stills seized.....	2
Ordinary stills seized.....	60
Automobiles seized.....	3
Arrests as follows:	
Adultery	4
Admitting minors to pool room.....	2
Arrest on a capias.....	7
Assault on an officer.....	6
Automobile law.....	9
Default warrants.....	6
Disturbance of the peace.....	2
Drunkenness	25
Gaming implements.....	19
Gaming nuisance.....	1
House of ill fame.....	1
Idle and disorderly.....	1
Keeping and exposing liquor for sale.....	123
Larceny and accessory.....	2
Lewd and lascivious.....	2
Liquor nuisance.....	35
Peddling without a permit.....	17
Profanity	1
Revolver (unnaturalized citizen).....	8
Sale of liquor.....	63
Threatening language.....	1
Violation of probation.....	10
Fines paid in the District Court.....	\$7010

Fines paid in the Superior Court.....	2510
Sentences served in the District Court.....	1 yr. & 2 mo.
Sentences served in the Superior Court.....	5 mo.
Indefinite sentence to Sherborn.....	1
Cases pending in the District Court.....	10
Cases pending in the Superior Court.....	8

The above report is the result of the work of five officers known as the Cambridge Vice Squad.

Evidence necessary to convict persons for violation of the liquor law is much harder to obtain at present, than it was earlier in the year, which shows the good effect made upon those who sell liquor.

There is a great movement in the liquor traffic in Cambridge. Liquor is still being sold in some places in smaller quantities by those whom we have thus far failed to get, lacking sufficient evidence to bring them before the Court.

It would be ungrateful not to mention those who have given the utmost support and made it possible to accomplish the work already done. His Honor the Mayor Edward W. Quinn, and Chief of Police John J. McBride, have at all times given assistance to us in every way possible and much of the success is due to them. We have been assisted by many of our citizens, both men and women, in all parts of the city, also by members of the police department. The co-operation of the District Court, the District Attorney's Office and the Superior Court, is shown by the fact that only four cases have been lost in the District Court, and two cases in the Superior Court.

The hard work has been done by the Vice Squad. They have worked day and night, sacrificed the comfort of their homes and the pleasure they were entitled to for this work. No truer or more courageous men can be found than these who have proved their worth in many hard and dangerous places, and I believe them to be "Men whom the spoils of office cannot buy."

ANNUAL REPORT OF THE POLICE MATRONS FOR YEAR 1923

(Females)

Drunkenness	113
Lewd and lascivious	5
Disturbance of the peace.....	8
Adultery	4
Stubbornness	6

POLICE DEPARTMENT

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Idle and disorderly.....	3
Interfering with an officer.....	1
Polygamy	1
Receiving stolen property.....	1
Forgery	1
Destroying clothing	1
Illegal sale of liquor.....	1
Keeping and exposing.....	3
Safe keeping	7
Assault and battery.....	2
Larceny	3
Breaking and entering in the nighttime.....	1
Fornication	1
Disorderly house	2
Violation of probation (capias).....	3
Violation of probation (warrant).....	1
Total	175

JUVENILES (MALES)

Lost boys	7
Runaways	2
Stubbornness	2
Larceny	4
Breaking and entering	1
Violation of probation.....	3
Robbery	2
Total	21

ANNUAL REPORT OF THE INSPECTOR'S OFFICE FOR YEAR 1923

Arrests	181
Cases investigated	2,283
Property recovered	\$14,201 75
Finger prints taken of prisoners.....	122
Photographs taken of prisoners.....	92
Money collected on damages to city property.....	\$290 77

Work done by this department in co-operation with Special Commission on
Necessaries of Life, Board of Health, City Solicitor and other
City Departments

Accidents investigated	153
Board of Health orders served.....	110
Rent cases presented to the Court.....	86
Rent cases investigated.....	83
Investigations for the Chief.....	17
Inquests	17
Investigations for Mayor's office.....	22
Jurors investigated	182
Investigations for City Clerk.....	17
Civil Service investigations.....	18
Charter investigations	5

COMBINED REPORT FROM THE FOUR DIVISIONS

Value of property reported stolen	\$173,247 35
Value of property recovered	177,213 50

Value of property recovered for other Police Departments.....	20,775	00
Male prisoners 7,206 Female prisoners 436 Non-residents 2,454		
Accidents	3,929	
Bicycles found and recovered..	55	
Buildings found open and secured	391	
Cases investigated	12,669	
Dangerous buildings	3	
Dangerous chimneys .....	...
Dead bodies found.....	37	
Defective catch basins	105	
Defective drains and vaults....	4	
Defective trees	77	
Defective fire alarms and clocks	14	
Defective gas pipes	6	
Defective water pipes	249	
Defective hydrants	27	
Defective lamps	7,213	
Defective wires	141	
Defective street signs	9	
Defective streets and side-walks		1,563
Disturbances suppressed		458
Dogs killed		117
Fire alarms given.....		521
Fires extinguished without alarms		150
Lost children restored.....		458
Sick and injured persons assisted		712
Stray teams put up.....		118
Street obstructions removed....		75
Summonses served		1,793
Summonses served for out of town		737
Warrants served for arrest....		1,266
Persons reported missing.....		199
Persons restored		122
Dogs sent to Animal Rescue..		50

OFFENCES FOR WHICH ARRESTS HAVE BEEN MADE

Crimes Against Persons:

Abduction	9
Assault with dangerous weapon	13
Assault (indecent)	12
Assault with intent to rob..	8
Assault and battery.....	392
Assault on an officer.....	7
Manslaughter	18
Murder (accessory)	1
Murder (attempt)	1
Rape	14
Rape (attempt)	3
Robbery	31
Threats and intimidations....	24
Throwing missiles	2
Assault with a revolver.....	3
Robbery (attempt)	8
	<hr/>
	546

Crimes Against Property:

Arson	2
Accessory after the fact to breaking and entering.....	2
Breaking and entering.....	144
Evading a fare.....	1
Larceny in building.....	1
Larceny from realty.....	3
Larceny	420
Larceny from person.....	7
Malicious mischief	81
Receiving stolen goods.....	47
Trespass	98
Unlawful appropriation	63
Conveying leased property..	12
Attempt to break and enter	18
Attempt to commit larceny	7
Attempt to break and enter freight cars	8
Selling mortgaged property	1
Bad check	2
Attempt unlawful appropriation	1
Destroying property	3
Accessory after the fact of larceny	1
Conveying land	1

 933

Crimes Against Public Order:

Attempt to commit larceny	6
Attempt to give false weight	4
Accosting opposite sex	6
Adultery	17

Wearing sailor's uniform....	1
Having burglar tools.....	5
Failing to send children to school	3
Loitering	12

POLICE DEPARTMENT

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Abandonment	11	Motor vehicle laws.....	1,059
Bastardy	49	Non-support	308
Bribery	3	Neglected children	16
Using scale without au- thority	1	Fighting by agreement.....	2
City Ordinance (violation)..	187	Obstructing the highway....	7
Common drunkard	8	Peddling unlicensed	30
Common railer and brawler	1	Perjury	3
Carrying concealed weapons	25	Polygamy	5
Contempt of court.....	5	Failing to take medical treatment	1
Conducting junk shop with- out license	4	Failing to perform contract	1
Conspiracy	4	Promoting lottery	8
Cruelty to animals.....	3	Runaways	22
Delinquent	3	Rescue a prisoner.....	2
Delaying police ambulance..	1	Suspicious person	20
Untrue advertising	1	Safe keeping	17
Disturbing a public meeting	28	Buying junk from minors....	1
Disturbing the peace.....	272	Surrender by bail.....	1
Disturbance on street car...	1	Stubbornness	88
Dcg (unlicensed)	31	Truants	5
Deserters	5	Tramps	3
Drunkenness	3,296	Unnatural act	2
Escaped prisoner	12	Vagabonds	3
False alarm of fire.....	1	Vagrants	12
Forgery	4	Violation parole	12
Federal Laws (violation of)	5	Violation probation	22
Fornication	3	Violation milk can and bottle law	7
Fugitive from justice.....	2	Violation child labor law....	4
Gaming and present at.....	185	Violation cigarette law.....	1
House of ill fame.....	6	Violation labor law.....	27
Idle and disorderly.....	7	Violation traffic	6
Furnishing liquor to a pris- oner	1	Kidnapping	1
Incest	3	Dogs at large.....	2
Indecent exposure	8	Violation Board of Health..	3
Insane	32	Violation advertising law....	1
Lewd cohabitation	15	Violation fish and game laws	1
Lewdness	7	Operating auto drunk.....	6
Liquor laws (violation).....	146	Accessory to fighting by agreement	5
Liquor nuisance	2		
Lord's day (violation).....	6		6,162

RECAPITULATION

Against Person	546
Against Property	933
Against Public Order.....	6,162
Total	7,441

NATIVITY OF PERSONS ARRESTED

Asia	1	Finland	1	P. E. I.....	26
Algiers	1	Greece	31	Scotland	55
Armenia	33	Cape Verde	1	Sweden	46
Austria	11	Hungary	2	Spain	5
Australia	2	Denmark	4	Servia	4

Belgium	2	Ireland	469	Syria	1
Albania	4	Italy	304	Turkey	4
Canada	242	New Brunswick..	29	United States ...	4,938
China	2	Lithuania	67	Unknown	1
Mexico	2	Newfoundland ...	21	Cape Breton.....	2
England	46	Norway	9	India	1
France	10	Nova Scotia	65	West Indies	56
South America ..	4	Poland	70	Rumania	2
Germany	21	Portugal	6		

OCCUPATIONS OF PERSONS ARRESTED

Agent	54	Glass blower.....	2	Porter	18
Auto Business...	44	Helper	20	Railroad man.....	15
Baker	52	Hotel keeper.....	6	Real estate.....	6
Barber	28	Housekeeper	263	Rubber worker...	129
Accountant	1	Iceman	9	Sailor	47
Blacksmith	21	Inspector	17	Salesman	271
Bookkeeper	12	Investigator	2	Student	294
Boiler maker.....	7	Iron worker.....	86	Seamstress	9
Brass finisher....	6	Janitor	17	School	33
Broker	14	Jeweler	9	Shipper	42
Butcher	31	Junk dealer.....	18	Shoemaker	58
Cooper	1	Laborer	2,455	Soldier	7
Candy maker	14	Lather	10	Spinner	1
Cashier	1	Laundress	6	Steamfitter	48
Caretaker	1	Leather cutter...	6	Storekeeper	83
Carpenter	143	Lineman	6	Tailor	28
Chauffeur	529	Lawyer	3	Teacher	9
Chef	13	Laundry man.....	2	Teamster	221
Chemist	1	Machinist	224	Telephone opera-	
Clerk	199	Mail carrier.....	1	tor	3
Conductor	10	Manager	71	Tinsmith	2
Contractor	27	Manufacturer ...	17	Upholsterer	8
Cook	32	Marine	1	Waiter	22
Coremaker	5	Metal worker.....	1	Schoolboy	161
Dressmaker	1	Mason & tender	46	Schoolgirl	11
Decorator	9	Merchant	106	Shopgirl	2
Domestic	17	Milk dealer.....	4	Musician	10
Electrician	38	Mill hand	5	Dentist	3
Embalmer	2	Motorman	6	Plasterer	4
Engineer	30	Moulder	35	Cooper	9
Expressman	17	Newsdealer	16	Roofer	19
Farmer	17	None	494	Draughtsman ...	3
Fireman	34	Nurse	10	Marble worker...	1
Foreman	30	Office boy	10	Soapmaker	3
Fruit dealer.....	5	Painter	191	Undertaker	1
Gardener	18	Pattern maker...	23	Stenographer	3
Grocer	12	Physician	13	Clergyman	2
Builder	6	Plumber	49	Electrotyper	2
Druggist	5	Peddler	43	Florist	5
Operator	14	Polisher	2	Manicurist	1
Promoter	2	Printer	50	Welder	4
Glass worker.....	2	Bookbinder	11	Architect	1
Actor	1	Caterer	3	Truckman	6
Superintendent ..	5	Engraver	3	Drawtender	1
Dealer	17	Sausage maker..	1	Piano worker.....	4
Repairman	2	Collector	4	Treasurer	2

Rigger	2	Reporter	2	Detective	2
Millwright	1	Photographer	4	Vocalist	3
Messenger	2	Model	1	Saleslady	2
Fish cutter.....	1	Editor	1	Toolmaker	1
Fisherman	2	Installer	3	Steward	1
Packer	2	Attendant	1	Constable	2
Soldier	2	Checker	1	Coppersmith	2
Harness maker..	1	Woodworker	21	Busboy	1
Waitress	3	Physical inst.....	3	Watchman	7
Civil engineer....	1	Fortune teller....	2	Mattress worker	1
Dyer	1	Paperhanger	1	Clothing cutter..	1
Cigarmaker	1	Police officer.....	2		

WAGON, AMBULANCE, TELEPHONE AND SYSTEM DUTY CALLS

Months	Wagon Calls	Miles Run	Ambulance Calls	Miles Run	Telephone Calls	System Duty Calls
January	328	799,435	63	181,262	14,579	32,940
February	454	709,035	60	167,390	13,357	35,006
March	417	94,008	44	119,472	11,163	32,375
April	372	966,243	69	201,981	11,908	29,300
May	453	1,180,379	53	179,385	13,562	38,334
June	410	1,169,713	81	228,131	13,663	36,080
July	507	1,267,187	75	246,951	12,363	31,937
August	438	1,012,221	72	194,772	11,709	29,377
September	466	1,068,252	59	179,066	11,664	29,852
October	433	993,781	72	246,247	12,718	32,723
November	390	973,788	69	235,919	12,841	34,920
December	402	871,738	56	159,311	13,618	35,743
Total	5,070	11,952,702	773	2,235,897	153,145	403,857

YEARLY REPORT OF THE AUTOMOBILE BUREAU

	Automobiles stolen in Cambridge	Automobiles stolen in Cambridge and recovered	Automobiles stolen in other cities and recov- ered in Cambridge
April 1923.....	21	20	6
May 1923.....	18	20	12
June 1923.....	29	25	9
July 1923.....	25	26	9
Aug. 1923.....	29	24	2
Sept. 1923.....	41	40	4
Oct. 1923.....	44	40	3
Nov. 1923.....	45	44	23
Dec. 1923.....	41	38	16
Jan. 1924.....	16	12	7
Feb. 1924.....	12	12	5
March 1924.....	43	39	11
Total	364	340	107

PROPERTY IN USE BY THE DEPARTMENT

1 Adding machine	20 Ink stands
1 Auto cradle	1 Inspector's filing cabinet
3 Automobiles	20 Lanterns
3 Bags (messenger)	2 Lung motors
220 Badges	215 Manuals
4 Beds and equipment	3 Medicine cabinets
Belts	1 Mirror
30 Blankets	4 Motor Ambulances
5 Books of City Ordinances	2 Motorcycles
1 Bookcase	1 Operating table
210 Box keys	1 Oil tank (Bowser)
210 Cap badges	1 Pillow (rubber)
1 Camera and photo utensils	2 Pulmotors
82 Chairs	212 Revolvers
10 Clocks	4 Riot guns
6 Clothing lockers	2 Rogues' galleries
212 Clubs	3 Searchlights
1 Couch	1 Sectional filing case
15 Cuspidors	6 Sets of General Laws
215 Diaries	3 Safes
23 Desks	4 Signal machines
6 Directories	2 Strait jackets
4 Electric desk lamps	3 Stretchers
1 Electric fan	5 Tables
1 Finger print cabinet	1 Telephone sytem (private)
5 Finger print sets	3 Typewriters
8 Fire ropes	20 Traffic belts
2 Grappling irons	4 Thermometers
4 Handcuffs (4 pair)	3 Wardrobes
3 Handhoses	10 Waste baskets
5 Ice water tanks	1 Wire fastener (Hutchinson)

RECOMMENDATIONS

For several years it has been recommended that the old brick cells at Station 2 be removed and steel cages installed; it would seem to me from a sanitary standpoint that this matter should be attended to at once.

I would respectfully suggest that a Traffic Headquarters be established for the Traffic Division.

PERSONAL

During the year 4 Patrolmen resigned from the Force and several other officers were penalized after hearings on minor charges.

As to the Liquor Laws and their enforcement in this City, much good work has been accomplished by the officers, and the City is now free from so-called taps or near beer saloons.

AUTO PARKING

With the increasing number of automobiles some provision should be made for the parking of automobiles at some place other than the public streets. If this were done it would relieve the congestion in the streets.

The work in the Inspectors' Department under the direction of Captain Patrick Hurley has been very satisfactory during the past year.

I wish to thank His Honor, the Justices, Clerks and Probation Officers of the Municipal Court for advice and assistance rendered; and also to the many citizens for kind co-operation and valuable information. To the officers, patrolmen, and all others connected with the department, I desire to extend my deep appreciation for their loyal co-operation and excellent services rendered during the year.

Respectfully,

JOHN J. McBRIDE,
Chief of Police.

REPORT OF BUILDING DEPARTMENT

June 3, 1924.

Hon. Edward W. Quinn, Mayor,
Cambridge, Mass.

Dear Sir:—

In accordance with the revised ordinances of this city, I transmit herewith the annual report of the Building Department for the year ending December 31, 1923.

INSPECTION OF BUILDINGS

Number of applications received and permits granted.....	1,260
Number of inspections of buildings.....	4,665
Number of violations.....	80

INSPECTION OF GAS FITTING

Number of applications received and permits granted.....	2,145
Number of inspections and tests.....	3,346
Number of violations.....	27

INSPECTION OF PLUMBING

Number of applications received and permits granted.....	571
Number of inspections and tests.....	2,607
Number of violations.....	26

INSPECTION OF ELEVATORS

Number of applications received and permits granted.....	19
Number of inspections and tests.....	466
Number of violations.....	63

Yours respectfully,

JEREMIAH F. DOWNEY,
Supt. of Public Buildings.

NEW NON-RESIDENTIAL BUILDINGS

	January		February		March		April		May		June	
	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost
Amusement and recreation places.....												
Churches												
Factories, bakeries, ice-plants, laundries and other workshops.....												
Garages	1	10,000			1	6,000					1	1,000
Gasoline and Service Stations.....	1	8,500	2	750	13	34,775		4,000			1	1,600
Institutions								55,440			31	57,278
Office Buildings, including banks.....								3,700				
Public Buildings.....	1	5,000			1	190,000						
Public Works and utilities.....												
Schools												
Sheds, poultry houses.....	2	700										
Stables and barns.....												
Stores			4			73,400		2,150			3	2,000
								3,000				
								646,500			3	7,765
Total	3	24,200	2	750	19	304,175	59	714,790	59	116,036	39	69,643

NEW RESIDENTIAL BUILDINGS

	January			February			March			April			May			June		
	No. of Bds.	Estimated Cost	Families planned for	No. of Bds.	Estimated Cost	Families planned for	No. of Bds.	Estimated Cost	Families planned for	No. of Bds.	Estimated Cost	Families planned for	No. of Bds.	Estimated Cost	Families planned for	No. of Bds.	Estimated Cost	Families planned for
NEW RESIDENTIAL BUILDINGS																		
Housekeeping Dwellings.....																		
1 Family	1	14,000	1	2	25,000	2	3	28,500	3	3	42,500	3	6	89,500	6			
2 Family Dwellings.....							12	153,500	24	12	72,400	14	6	76,500	12			
Multi-family dwellings.....							1	12,000	3	1	28,000	6	5	320,000	120			
(3 or more families)																		
Non-housekeeping Dwellings.....																		
Hotels																		
Lodging Houses																		
Total New Residential Bldgs.....	1	14,000	1	2	25,000	2	16	194,000	30	12	142,900	23	17	486,000	138			

CLASSIFICATION OF STRUCTURES (Continued)

NEW NON-RESIDENTIAL BUILDINGS	July		August		September		October		November		December		Totals	
	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost	No. of Bldgs.	Estimated Cost
Amusement and recreation places.....													1	1,000
Churches													9	471,400
Factories, bakeries, ice-plants, laundries and other workshops.....													280	428,199
Garages	19	82,150	1	400,000	1	39,800	2	9,500	18	17,325	1	500	4	12,200
Gasoline and Service Stations.....			43	49,035	19	16,020	30	54,390			7	11,200	1	2,000
Institutions			1	5,000									4	275,000
Office Buildings, including banks.....			1	30,000	1	2,000							1	
Public Buildings.....													4	
Public Works and utilities.....														
Schools	2	7,290	2	307,175	1	2,000	5	4,320	3	505	2	880	5	316,465
Sheds, poultry houses.....	1	500	5	4,600	1	5,000							26	15,855
Stables and barns.....					1	35,000	7	29,200	4	153,000	2	1,950	2	8,000
Stores	2	11,000	1	100,000	1								34	1,078,815
Total	24	100,940	54	895,810	24	99,820	44	97,410	25	170,830	12	14,530	366	2,608,934

NEW RESIDENTIAL BUILDINGS	July		August		September		October		November		December		TOTALS	
	No. of Bldgs.	Estimated Cost	Families planned for	No. of Bldgs.	Estimated Cost	Families planned for	No. of Bldgs.	Estimated Cost	Families planned for	No. of Bldgs.	Estimated Cost	Families planned for	No. of Bldgs.	Estimated Cost
Housekeeping Dwellings.....														
1 Family	1	12,000	1	4	32,900	4	1	5,100	1	2	7,000	2	4	55,000
2 Family Dwellings.....														
Multi-family dwellings.....	2	25,500	4	3	24,900	6	2	18,300	4	4	41,000	8	39	435,200
(3 or more families)													14	641,000
Non-housekeeping Dwellings														
Hotels	2	34,000	8	1	175,000		3	127,000	31	1	120,000	16	2	325,000
Lodging Houses							1	150,000						
Total New Residential Bldgs.	5	71,500	13	8	332,800	10	6	23,100	6	3	23,100	6	27	311,500

REPORT OF CITY PHYSICIAN

Cambridge, Mass., March 31, 1924.

To His Honor the Mayor, and the Honorable City Council of the
City of Cambridge:

Gentlemen:—

The report of the City Physician for the twelve months
ending March 31, 1924, is hereby rendered:

CITY HOME

Number of visits.....	283
Number of persons attended there.....	114
Number of deaths.....	25
Number of patients admitted to hospital wards.....	51
Cost of medicines and surgical appliances.....	\$763.93

OUTSIDE AID

Number of persons attended for Department Public Welfare.....	973
Number of visits to the same.....	1,276
Number of persons sent to outside hospitals for treatment.....	6
Number of outside deaths.....	8
Number of births.....	8
Cost of medical and surgical appliances.....	\$893.36
Cost of medical assistance.....	100.00

DEPARTMENTAL

Number of persons attended at police stations.....	28
Number of visits to same.....	28
Number of persons examined for the law department.....	7
Number of visits to same.....	7
Number of employees examined for injuries.....	6
Number of visits to same.....	9
Number of vaccinations for the school committee.....	467
Number of visits to same.....	467
Number of employees examined for retirement.....	6
Number of visits to same.....	6
Number of firemen examined for retirement.....	1
Number of visits to same.....	3
Total number of persons receiving professional care.....	1,603
Total number of visits to same.....	2,079

I wish to thank all the officials connected with the department for their kind and courteous treatment, and material help.

Respectfully submitted,

WILLIAM G. BROUSSEAU, M. D.,
City Physician.

CAMBRIDGE WATER BOARD
1923-1924

President

JAMES J. SCULLY

Members of the Board

JAMES J. SCULLY.....	Term expires 1926
JOHN P. CONROY.....	Term expired 1922
JOSEPH E. DOHERTY.....	Term expires 1924
BERNARD E. McDERMOTT.....	Term expires 1925

General Superintendent of Works

TIMOTHY W. GOOD

CAMBRIDGE WATER BOARD

Date of election and length of service of members, 1865-1920

CHESTER W. KINGSLEY.....	1865—1894	
JOHN SARGENT	1865—1871	
A. K. P. WELCH	1865—1871	
ROBERT DOUGLASS	1865—1871	
SAMUEL SLOCOMB	1865—1876	
Z. L. RAYMOND	1871	
HENRY L. EUSTIS.....	1871—1885	
J. WARREN MERRILL	1871—1881	
GEORGE P. CARTER	1871—1883	
JOHN H. LEIGHTON	1876—1879	
KNOWLTON S. CHAFFEE	1879—1889	
JAMES M. W. HALL	1881—1899	
LEANDER M. HANNUM	{ 1883—1884	
	{ 1885—1893	
JOHN F. O'BRIEN	1884—1895	
GEORGE H. HOWARD	1889—1910	
E. BURT PHILLIPS	1893—1896	
FRANK A. ALLEN	1895—1899	
STILLMAN F. KELLEY	1894—1903	
WELLINGTON FILLMORE	1896—1903	
EDMUND H. STEVENS	1899—1907	
WILLIAM B. DURANT	1899—1907	
ANDREW J. RADY	1903—1914	
JOHN F. O'BRIEN	1903—1923	
ALVIN F. SORTWELL	1907—1910	
JAMES J. SCULLY	1910	(Now in office)
AUGUSTUS W. DUDLEY.....	1907—1909	
JOSEPH E. DOHERTY.....	1909	(Now in office)
BERNARD E. McDERMOTT.....	1910	(Now in office)
JOHN P. CONROY.....	1914	(Now in office)

Presidents of the Board

J. WARREN MERRILL.....	1865—1867
EZRA PARMENTER	1867
JOHN SARGENT	1867—1871
J. WARREN MERRILL.....	1871—1873
CHESTER W. KINGSLEY.....	1873—1876
GEORGE P. CARTER	1876—1883
CHESTER W. KINGSLEY.....	1883—1894
JAMES M. W. HALL.....	1894—1899
WILLIAM B. DURANT.....	1899—1907
ALVIN F. SORTWELL.....	1907—1910
ANDREW J. RADY.....	1910—1914
JAMES J. SCULLY.....	1914



CAMBRIDGE FILTRATION PLANT

REPORT OF CAMBRIDGE WATER BOARD

To the Honorable, the City Council of the City of Cambridge,
GENTLEMEN:—

The fifty-ninth (59) annual report of the Cambridge Water Board for the year ending March 31, 1924, is hereby submitted for your consideration.

The report of the General Superintendent gives in detail the operations and financial conditions of the Water Works. Reference also is made to the report of the Commissioners of the Sinking Funds of the City.

FINANCIAL STATEMENT IN BRIEF

Total Cost of Water Works to March 31, 1924.....	\$7,766,151 67
Total amount of funded bonds outstanding April 1, 1924	773,500 00
Less value of the sinking fund.....	683,163 81
	<hr/>
	\$90,336 19
Serial water debt	680,500 00
	<hr/>
Net water debt March 31, 1924.....	\$770,836 19

During the year the following water bonds (all serial) matured and were paid, viz:

July 1, 1923.....	31½ %	\$2,000 00
July 1, 1923.....	31½ %	1,500 00
Sept. 1, 1923.....	31½ %	1,000 00
Oct. 1, 1923.....	31½ %	11,000 00
Oct. 1, 1923.....	31½ %	14,000 00
Nov. 1, 1923.....	31½ %	500 00
Dec. 1, 1923.....	31½ %	1,000 00
Feb. 1, 1924.....	31½ %	500 00

Feb. 1, 1924.....	3½ %	1,000 00
Mar. 1, 1924.....	3½ %	500 00
Mar. 1, 1924.....	3½ %	12,500 00

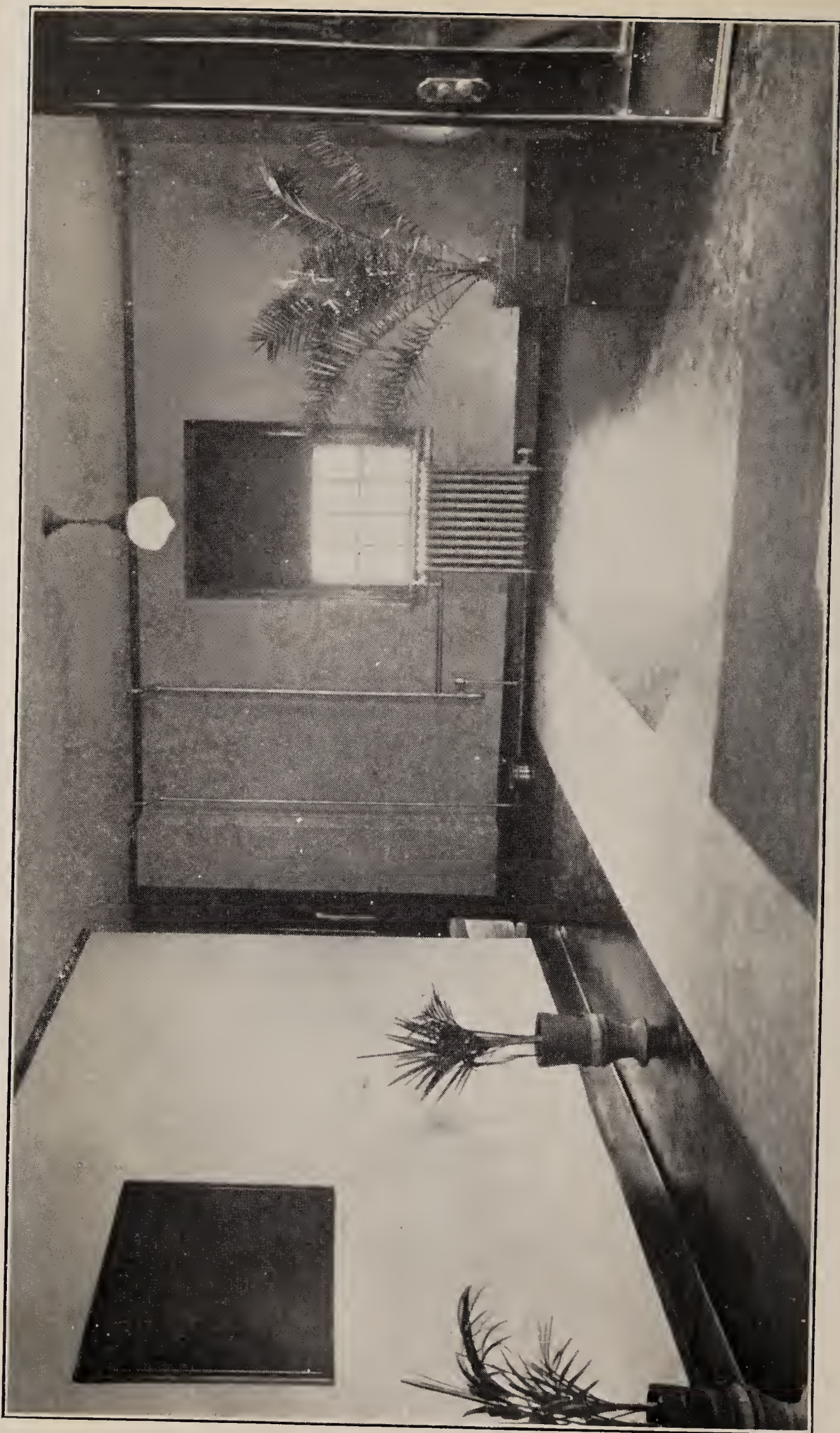
Total\$45,500 00

Funded Water Debt

Date of issue	Interest	Term	Due	Amount
April 1, 1894	4	30	April 1, 1924	\$300,000 00
May 1, 1905	3½	20	May 1, 1925	46,000 00
May 1, 1906	4	30	May 1, 1936	280,000 00
June 1, 1907	4	30	June 1, 1937	49,000 00
July 1, 1907	4	30	July 1, 1937	25,000 00
June 1, 1908	4	20	June 1, 1928	20,000 00
Aug. 1, 1908	4	30	Aug. 1, 1938	17,000 00
Jan. 1, 1910	3½	20	Jan. 1, 1930	5,000 00
Feb. 1, 1910	3½	20	Feb. 1, 1930	5,000 00
Mar. 1, 1911	3½	30	Mar. 1, 1941	16,500 00
Dec. 1, 1911	3½	30	Dec. 1, 1941	10,000 00
				<hr/>
				\$773,500 00

Serial Loans of Water Department

Due year ending March 31, 1925.....	\$45,500 00
" " " " 31, 1926.....	45,500 00
" " " " 31, 1927.....	33,000 00
" " " " 31, 1928.....	33,000 00
" " " " 31, 1929.....	33,000 00
" " " " 31, 1930.....	33,000 00
" " " " 31, 1931.....	32,000 00
" " " " 31, 1932.....	32,000 00
" " " " 31, 1933.....	32,000 00
" " " " 31, 1934.....	31,000 00
" " " " 31, 1935.....	28,500 00
" " " " 31, 1936.....	28,500 00
" " " " 31, 1937.....	27,500 00
" " " " 31, 1938.....	27,500 00
" " " " 31, 1939.....	25,500 00
" " " " 31, 1940.....	25,500 00
" " " " 31, 1941.....	25,500 00
" " " " 31, 1942.....	25,500 00
" " " " 31, 1943.....	25,500 00
" " " " 31, 1944.....	12,500 00
" " " " 31, 1945.....	12,500 00
" " " " 31, 1946.....	11,000 00
" " " " 31, 1947.....	11,000 00
" " " " 31, 1948.....	11,000 00
" " " " 31, 1949.....	11,000 00
" " " " 31, 1950.....	11,000 00
" " " " 31, 1951.....	11,000 00
<hr/>	
\$680,500 00	



MAIN ENTRANCE

Value of Sinking Fund.....	\$683,163 81
The surplus receipts year ending March 31, 1918.....	\$33,543 71
“ “ “ “ “ “ 31, 1919.....	105,994 89
“ “ “ “ “ “ 31, 1920.....	71,060 28
“ “ “ “ “ “ 31, 1921.....	80,242 80
“ “ “ “ “ “ 31, 1922.....	25,182 90
“ “ “ “ “ “ 31, 1923.....	113,295 39
“ “ “ “ “ “ 31, 1924.....	12,528 94
Total	<hr/> \$441,848 91

CONSUMPTION OF WATER

The total pumpage of water for the year ending April 1, 1924, was.....	4,369,863,900 gallons
The total pumpage of water for the year ending April 1, 1923, was.....	4,149,105,600 gallons
Showing an increase over last year of.....	220,758,300 gallons
The daily average pumpage during 1923- 1924 was	11,939,519 gallons
The daily average pumpage during 1922- 1923 was	11,367,412 gallons
or an increase over last year of.....	<hr/> 572,107 gallons

RESERVOIRS

As has been the condition at this season for several years, Stony Brook and Hobbs Brook reservoirs are full and overflowing. The added two feet elevations of the crests provide for additional storage of water, but we did not expect that we would continue to have such a large amount wasting over the spillway at Stony Brook, which during the year was 1,936,700,000 gallons or about 44% of our consumption.

It will be a great satisfaction to the Board when it can finance the construction necessary to provide for the storage in the Fresh Pond Reservoir of the water which now wastes into the Charles River.

METERS

Forty-eight per cent. of the active supplies are now metered. At date there are 7,422 in use. Of these we receive income from 7,285; the remaining meters cover fire supplies (63) and City Buildings etc., etc. (74).

PUMPAGE

The annual pumpage as reported for the year was 4,369,863,900 gallons or an increase over last year of 220,578,300 gallons.

The consumption was pumped by the Worthington Engines during the first part of the year during the time when the Leavitt Engine was stopped for repairs. The Leavitt Engine was placed in commission again late in August, and was in use during the rest of the year.

We have at no time during the year been fearful that our supply of water would not carry us through, notwithstanding our rainfall was much smaller than the annual average for many years.

The storage in our basins of Hobbs Brook Reservoir reached their lowest elevations, 177.07, on Nov. 23, 1923. Their highest elevations, 183.82, were recorded on April 6, 1923.

In Stony Brook Reservoir the storage reached its lowest elevation, 67.53, on October 15, 1923. On May 1, 1923, the elevation recorded was 84.08, showing that over a foot of water was flowing over the waste way.

Water in Fresh Pond was at an average elevation of 14.58. This is a very low average and due to the necessity of lowering the water in the pond to allow for the construction of deepening the pumping well to co-operate with the requirements of the filtration plant.

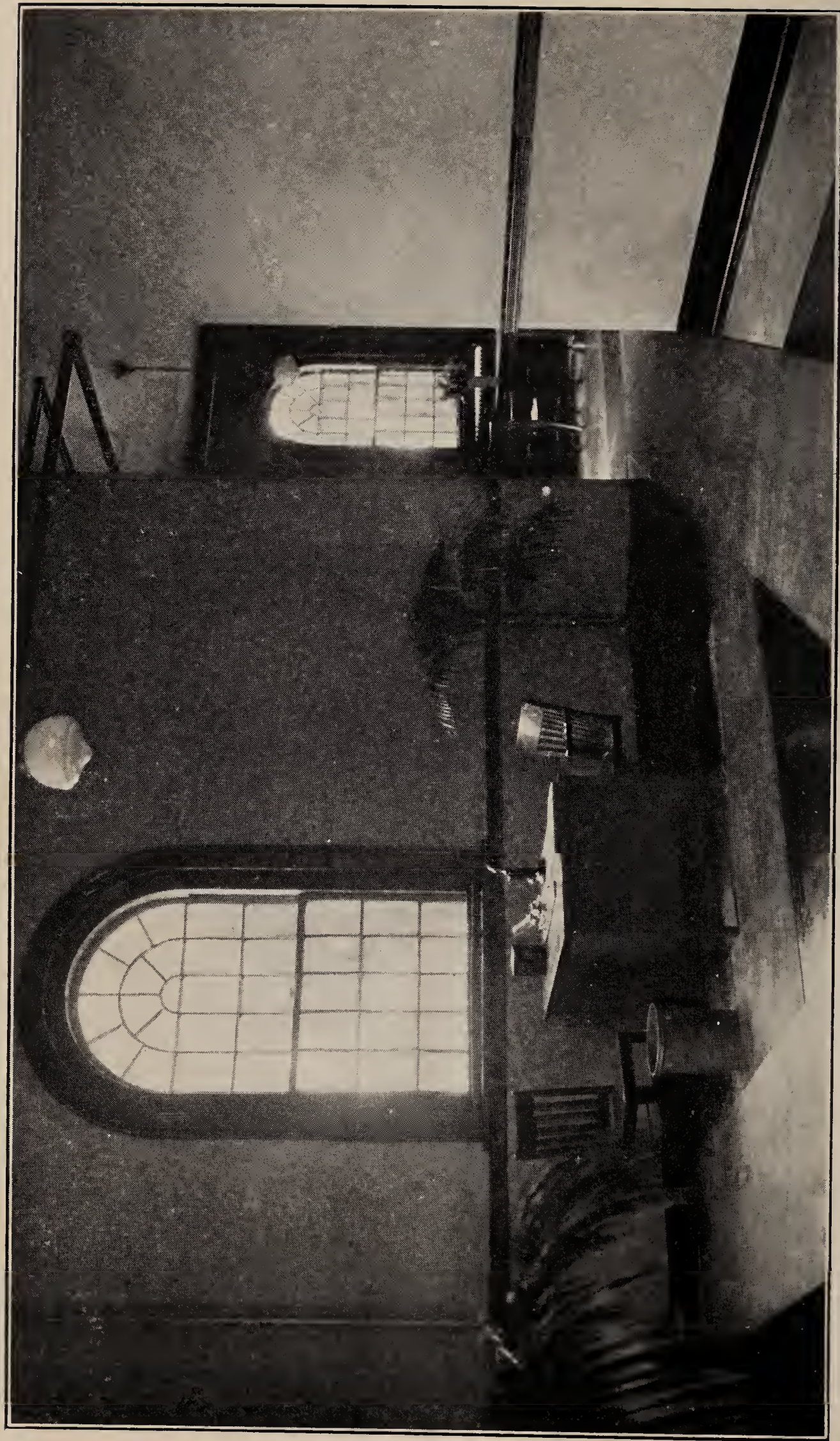
The Water Board has lost, by death, two of its oldest associates during the year:

Mr. John F. O'Brien died in August, 1923; he had been a member of the Water Board from 1884 to 1895, and from 1903 to 1923.

Quoting from the records of the Board, August 6, 1923:

"The Water Board having just learned of the death of our fellow member, Mr. John F. O'Brien, it seems fitting that proper record should be made of this sad event.

"Mr. O'Brien was an excellent type of a public-spirited citizen and has served as a member of this Board for thirty-one years, which gave him an excellent opportunity to prove his worth, and his advice has always been sought for matters relating to our water system.



OFFICE AND WATER BOARD ROOM

"His passing away will be keenly felt, not only by the Water Board, but by all citizens throughout the City, and it is therefore resolved that the Water Board enter upon its record a tribute to the memory of one of our faithful officials of the City, and a respected citizen, and that a copy of these resolutions be sent to the family of the deceased."

On November 8, 1923, Mr. Walter H. Harding, who had been our Water Registrar for so many years, passed away.

Again quoting from the records of the Water Board, November 9, 1923:

"The Cambridge Water Board having learned of the death of our late associate, Mr. Walter H. Harding, regret very much his untimely passing away.

"For forty-seven consecutive years he has faithfully performed the many arduous duties of this office, and has always given to the City his best effort. His wonderful knowledge of the many intricate problems of the Water Department since its inception, his strict sense of duty, and his unfailing courtesy have been of wonderful assistance to the Water Board, and his advice and opinion have been invaluable.

"As a mark of respect and appreciation of his faithful service, we transcribe upon our records our heartfelt tribute to our late friend and associate, and extend our deepest sympathy to his wife and family."

The death of Mr. Harding caused a rearrangement of the office force; Mr. Lincoln was made chief clerk of the office; Mr. Clark was advanced to Mr. Lincoln's former position, and Messrs. Cone and Andrew were assigned to special positions; the other clerks and assistants fulfilling their usual duties, with the additional tasks that the loss of one from our midst has created.

The usual co-operation of Mr. L. M. Hastings and his Engineering Department in assisting this department in its many problems is acknowledged with continued appreciation.

The Board also realizes that the investigations of these same problems have been well made and conditions remedied by its General Superintendent.

FILTER

The Board take pleasure in announcing the completion of the new Water Purification Works at Fresh Pond. Work on the plant was started in June, 1921, and the formal opening took place on Thursday, June 28, 1923, a description of which follows.

Respectfully submitted,

JAMES J. SCULLY,
BERNARD E. McDERMOTT,
JOSEPH E. DOHERTY,
JOHN P. CONROY,

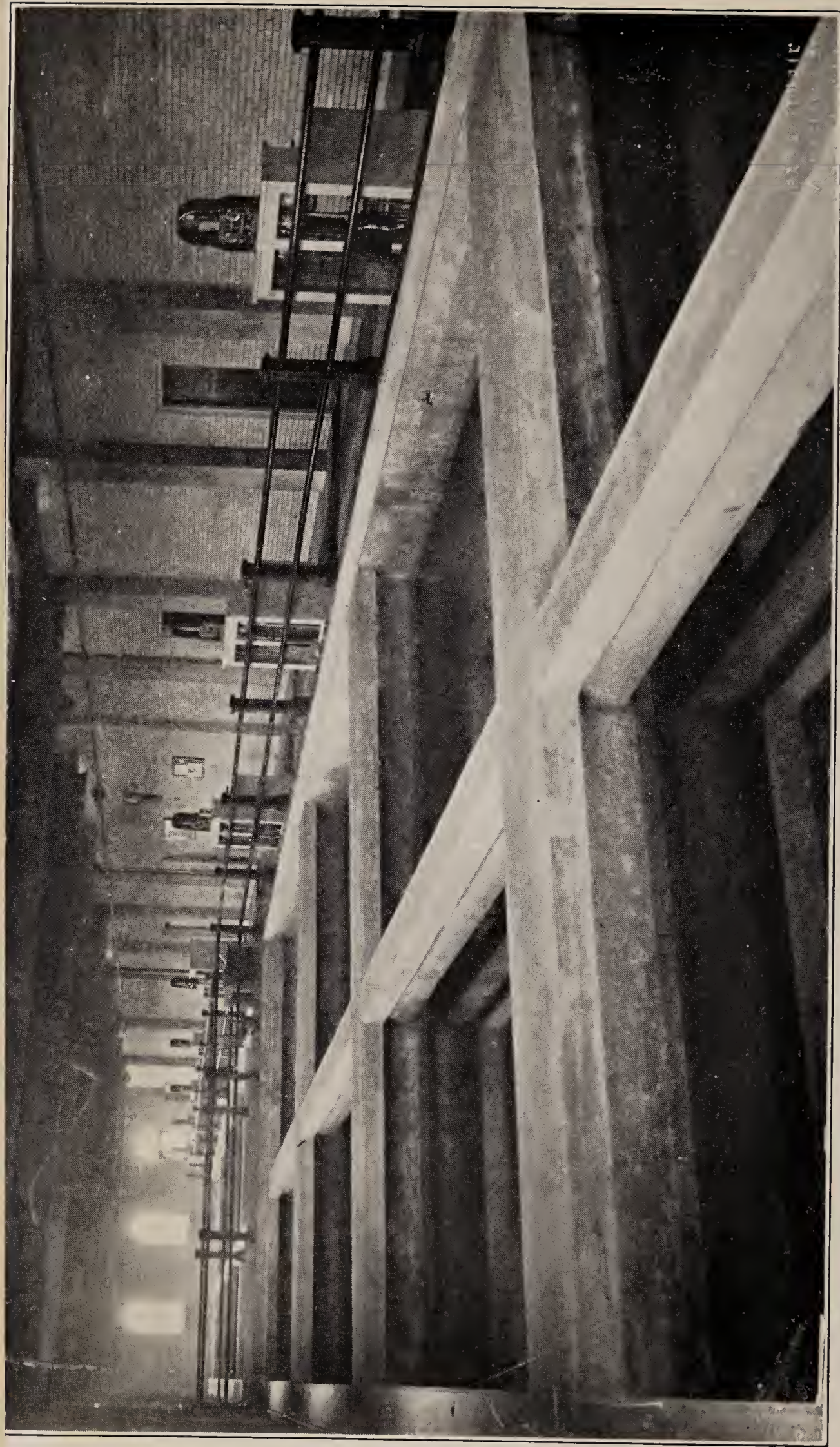
Cambridge Water Board.

DEDICATION OF WATER PURIFICATION WORKS

The opening of the new filtration plant on the shore of Fresh Pond Thursday, June 28, 1923, gave the general public and a large number of invited guests their first view of this new project, which will place the city's water supply in the first rank among Massachusetts cities. From 11.30 until well after 1 o'clock the invited guests, including many ladies, inspected every portion of the building and watched with interest the operation of the filter beds, the laboratory and other functions of the plant. Invitations were sent to our Governor, Lieutenant-Governor, Mayors, Selectmen of Towns, Metropolitan Water Works Superintendents, all of whom were present. President James J. Scully, Joseph E. Doherty, John F. O'Brien, Bernard E. McDermott and John P. Conroy, of the Water Board, Supt. Timothy W. Good and Resident Engineer Childs were on hand to explain the workings of the plant.

At 12.30 a luncheon was served to the guests, after which the formal exercises took place in Kingsley Park, where President Scully welcomed the gathering in the name of the Water Board and spoke as follows:

We are here today to dedicate an improvement in a municipal enterprise conducted by the water department, producing



FILTER BEDS

from a water shed and springs, caring for and delivering to the inhabitants of Cambridge, a necessity, water, second only to the air we breathe to sustain life.

The water department of our city was started by private interests in 1837, taking the water from springs in Somerville. In 1856 this company reorganized, had legislative authority to take water from Fresh Pond and surplus water flowing over dams at Little Pond, and Spy Pond. In 1865 Cambridge purchased all rights and privileges of the private company at a cost of \$291,400.00. Since that time the city has acquired further rights and privileges and has made many improvements.

The high service reservoir in use on Reservoir Street at the time distribution was conducted by private company, was found inadequate and had to be discontinued in 1897 due to lack of pressure for higher sections of the city, and Payson Park high service reservoir was built and put in service, and is the one now in use from which the water flows by gravity to the consumers of water in Cambridge, through 135 miles of mains in streets to about 15,000 supplies.

Prior to the building of Payson Park, in 1887, it was found necessary to acquire more water, consequently Stony Brook Reservoir was built, and is located in Waltham and Weston. The water area of this reservoir is about 72 acres and has a drainage area of 23 square miles. The water from this reservoir is brought through conduits and pipes a distance of $7\frac{1}{2}$ miles to the gate house at Fresh Pond.

Ten years later, in 1897, Hobbs Brook Reservoir was completed, as it was found necessary to increase the water supply. This reservoir is located in Waltham, Lincoln and Lexington, and has a water area of 558 acres. This has a drainage of about $7\frac{1}{4}$ square miles and the water from here flows through a large open brook to Stony Brook, about $3\frac{1}{2}$ miles distant.

The storage of water in Fresh Pond as at present constructed, Stony Brook and Hobbs Brook as built in 1887 and 1897, gives Cambridge a storage of 4,326,000,000 gallons, making available a supply of 11,500,000 daily consumption. This storage has been increased during the past year by rebuilding of dams by the water department employees at a cost of \$6,600,

which has increased the supply about 500,000,000 gallons or 1,500,000 per day.

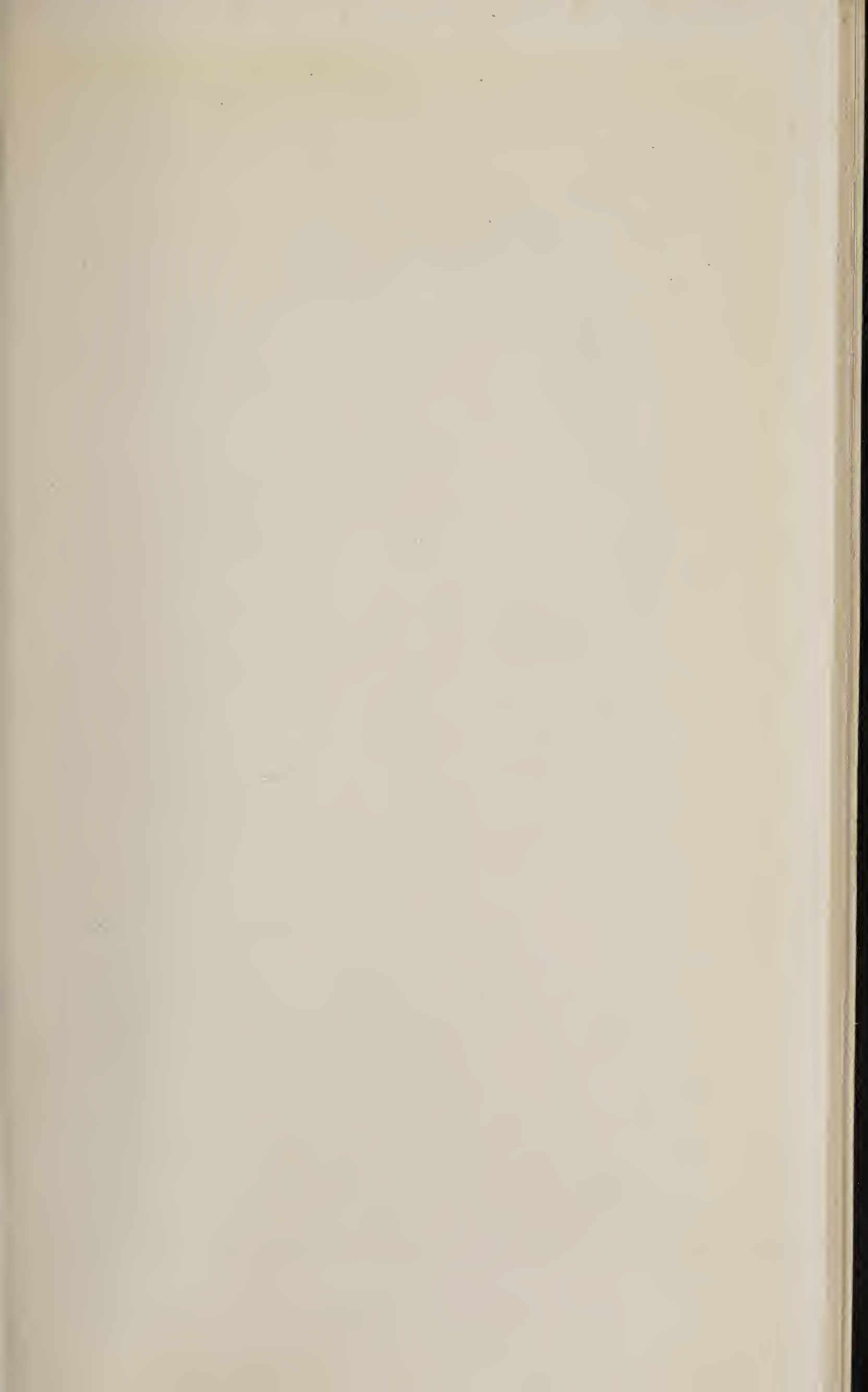
The earth dykes you see around part of Fresh Pond is the material excavated for filter construction, which the water board had placed at small expense so as to make a large saving in cost, when it is found advisable to increase the height of Fresh Pond 8 feet to contain 600,000,000 gallons more. This water can be obtained from Stony Brook, as at present in several months each year nearly a year's supply for the city flows over the dam to waste into the Charles River.

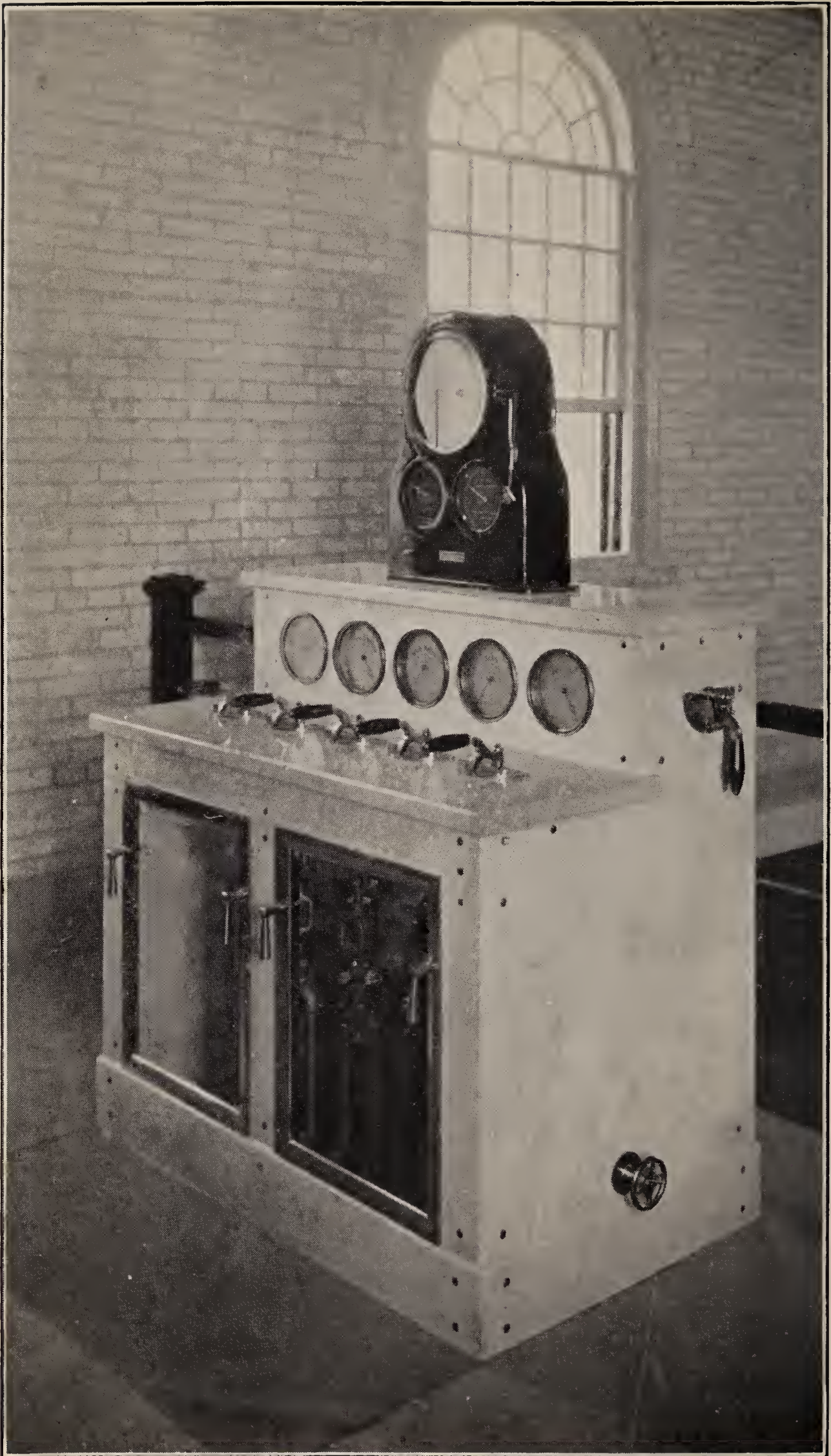
But to get to the reason of our being here today:

In 1911 Engineer Frederick P. Stearns, Prof. Hughes, and our city engineer, Lewis M. Hastings, in their studies recommended that this plant, which is being dedicated today, be built in 1913.

Prof. Whipple and Dr. W. M. Bunker, together with their assistants at Harvard University, in their studies in 1913 recommended this improvement; and after an investigation by the Water Board of our 31 miles of open shore having their danger of pollution, and of plants in New York, New Jersey, Pennsylvania, Maryland and Washington, together with conferences held with several engineers familiar with this work, the Board recommended in 1915 to Mayor Good, now our able and competent Superintendent of the Water Department, that a filtration plant be built. The City Council and the Mayor authorized the water board to proceed with plans. They engaged Col. George A. Johnson, of New York, to draw plans, and after these plans were prepared, October 15, 1915, we were delayed by hearings, etc., by the State Board of Health, until December 15, 1916. Then the World War compelled a delay in construction. In 1918, Mayor Quinn recommended an appropriation, which was granted by the City Council, and today we have the finished result of 12 years' study and work.

The necessity of this construction is much greater today than when our studies first started. By the additional traveling public in automobiles coming to and stopping for recreation on the 30 square miles of catchment or drainage area, some may have typhoid germs which may easily and carelessly be carried to our water supply.





OPERATING TABLE

The reason existing in 1911 is also increased by the greater population of the city and towns on our catchment area having water supplies in their homes and no sewer disposals except through cesspools, and it is human excrement that is most dangerous. We must filter the water for the safety of the public.

The plant has been constructed so as to operate as economically as possible, being supplied by gravity from Stony Brook. We treat the water at the point where it enters the sedimentation basin, which is so constructed that the water is delayed within about two hours, gathers the foreign matter in the water together, so as to make it quicker and more reliable for perfect filtration when it flows to the filter beds, 10 in number. It only flows through the beds in operation, as some are out of commission for about five minutes every 12 hours because of the foreign matter which is left on top of sand beds or filters as the water flows through, consequently they are put out of operation for washing which is done by water being driven through filters from the under side. This is continued until the water is clean, which indicates that the filter bed is clean, and then under-pressure the wash water is removed. When the water leaves the filter beds it flows over aerators or baffles which disturbs it greatly and takes out any odors that might be contained in the water. If necessary the water is then chlorinated to eliminate all bacteria. From this point it flows to a clear water well under the filtering buildings connected with the pumping station and is pumped from the station at Lexington Avenue to Payson Park, Belmont, from which all consumers of Cambridge water receive their supply by gravity.

The capacity of the plant is 14,000,000 gallons per day, and it was designed by George A. Johnson, consulting engineer, and built by Coleman Brothers, Inc., contractors, and The Roberts Filter Manufacturing Co., contractors.

The capital investment of the Water Department is \$7,500,000. Of this, our net debt, in long term and serial bonds, is \$875,300. The sinking fund for our long term bonds, on which our net debt is but \$117,800 after 1924, will have sufficient amount to discharge this part of indebtedness, although there are no debts to be paid from same until 12 years later, said to be an unusual condition for a sinking fund. The department has

issued no bonds for any improvement for 9 years, until the construction of this plant, and then but \$594,000, which is included in my statement of net debt. And we have the money appropriated in the treasury for repair of Payson Park, which will have to be our next expenditure.

In preparation for filtration we have cleaned 30 miles of main pipe. We have also cleaned about 10,000 house supplies. We changed some of our hand operated gates on large mains, which took 4 hours to close, to electric operated, taking but 7 minutes. We also made a pitometer survey of all mains in the city for leaks and consumption in each section of the city on which we found 56 per cent. domestic, 40 per cent. industrial and 4 per cent. waste. And today we are giving you the best water obtainable at a price cheaper than any city in the metropolitan district; and the Water Department furnishes water free for all municipal purposes, and buys and supplies hydrants for the fire department, whereas in some cities this is paid for from general taxation. I want to make it clear to all present that the Water Department's entire expenses of whatever nature are paid from the receipts from the sale of water.

Now as I have given you a little of the history of the Water Department and some of the reasons for the construction of this filtration plant, I will close by saying that it is the hope and desire of the Mayor, City Council, my associates and myself on the Water Board that your findings will be that we have contributed to your health, comfort and happiness by giving you, the inhabitants of Cambridge, a pure and wholesome water.

MAYOR QUINN GIVES THANKS

Mayor Quinn was then introduced and took occasion to pay his thanks to Maj.-Gen. Brewster, commander of the U. S. forces in this area, for setting aside important engagements to be present. He spoke of his long acquaintance with the affairs of the Water Board and paid high compliments to the members of the Board, Supt. Good and Engineer Johnson for their untiring work.

COMPLIMENTS OF MR. BARRETT

President Barrett, of the City Council, said that the legislative branch of the city government had always been ready to

support the efforts of the Water Board in improving the quality of the water supply and complimented them on their unselfish work.

COL. JOHNSON PRAISES PLANT

Col. George A. Johnson, who designed the filtration plant, said that it was fitting that Cambridge should have the best and most modern method of water purification and assured his audience that there was no better equipped plant in the world than the one which they had just inspected. He spoke of the difficulty in getting the State Board of Health to approve the plans for the plant and said that he felt that they would now be assured that a good move had been made. He said that he had received most cordial co-operation from the Water Board, Mayor and City Council and said that the job was one of the pleasantest he had ever undertaken.

REMARKS OF PROF. MELVILLE C. WHIPPLE

Prof. Melville C. Whipple, who will be in charge of the water purification, was introduced as one of the best men in his line in the state and spoke of the importance of pure water as follows:

There is probably no department of municipal government which renders greater service in the promotion of comfort, convenience and the public health than that to which is entrusted matters of water supply. Water is a prime necessity. Think for a moment, if you please, of what would come of an interruption of water service in a community of this size, if only for the period of 24 hours. In the industries many mechanical arrangements, some of them automatically dependent upon a flow of water, would be put out of operation. In the household all the routine of cooking, washing, and bathing would be disrupted at the cost of discomfort and inconvenience. In every place occupied by human beings, home, office and factory, the waste products of daily life which are ordinarily disposed of by water carriage would accumulate. Prolong this condition for a short time and nuisance and pestilence would follow. The fire hazard would also be intensified with interrupted service.

Quantity is not the only requisite of a public water supply. There must be everlasting vigilance over quality in order that

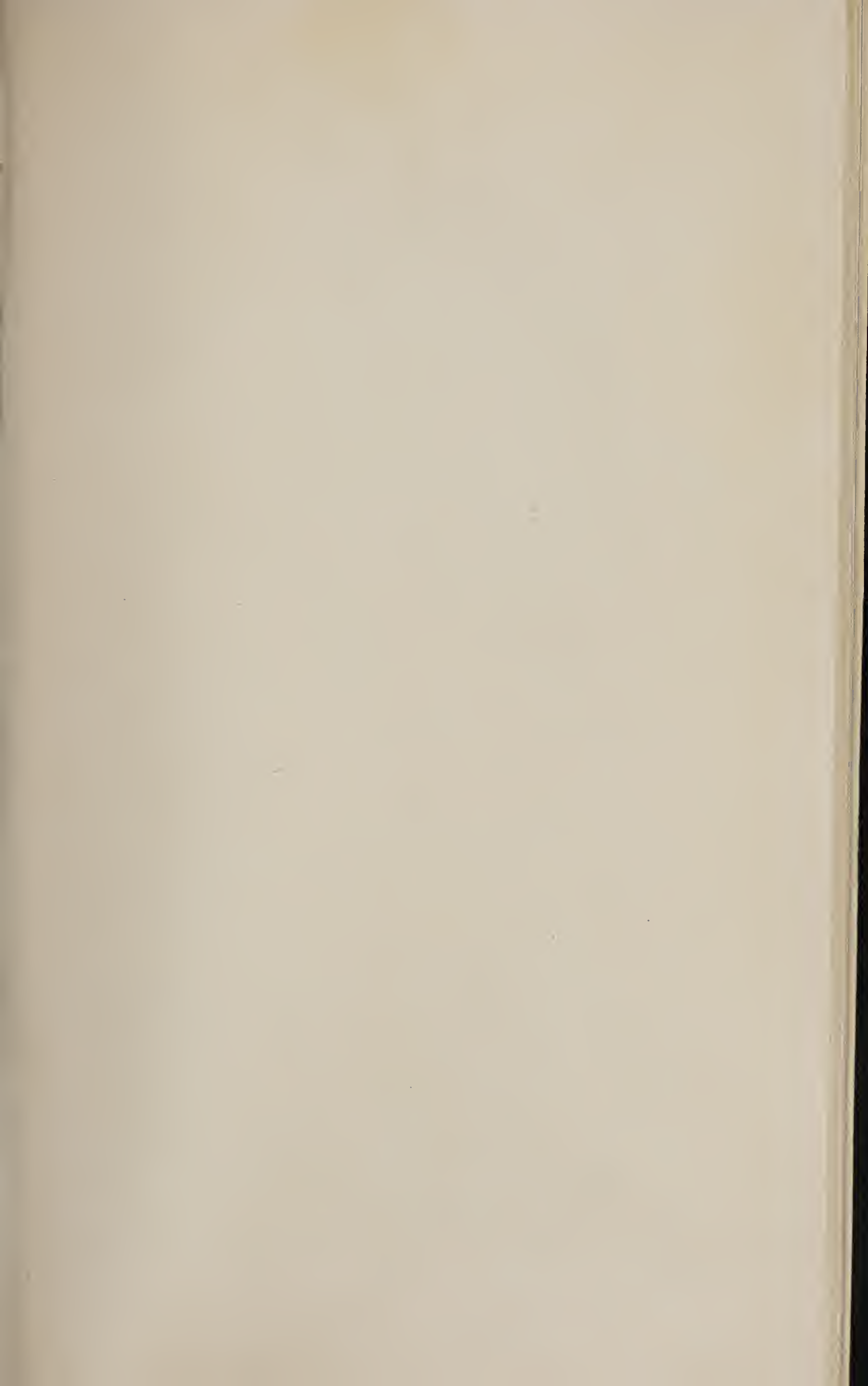
water-borne disease may not afflict the consumer. The responsibilities of the water department are, therefore, very great.

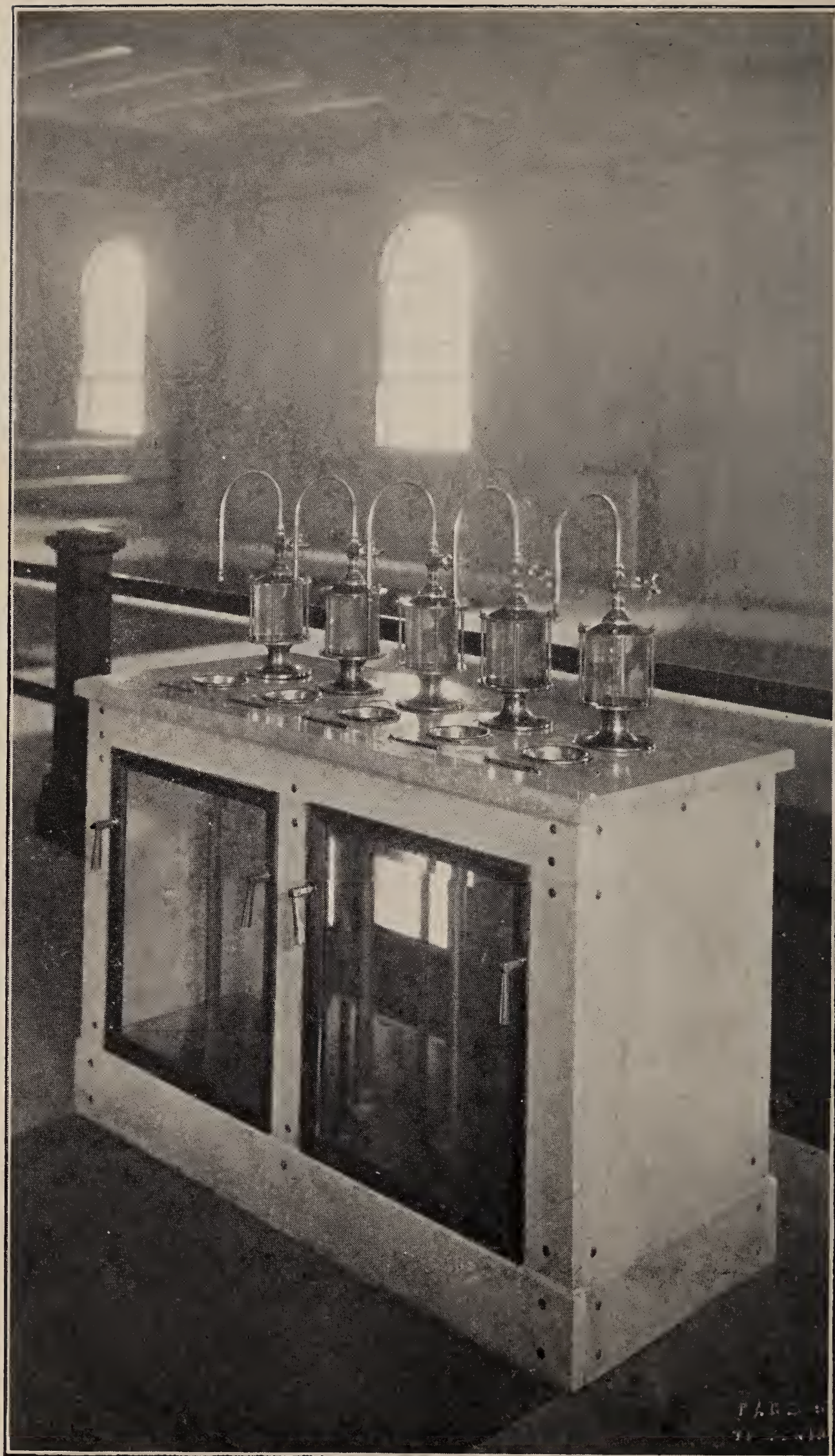
I have always been impressed, as a matter of general experience in water works affairs, with the honesty and seriousness of purpose displayed by those to whom these responsibilities are given. On the other hand, there is often a lack of appreciation on the part of the layman for the great work that is going on. There are reasons for this, and one is that possibly 75 per cent. of the investment in water works equipment is below the ground in the form of conduits, mains, and services, or exists at some distant point in the form of reservoirs, dams, and intakes. All these are seldom seen, and so, little appreciated by the average citizen.

It is, therefore, gratifying that on this day we are dedicating an extension of the Cambridge water works, which is as complex as any portion which formerly existed, which consists in good part of structures above the ground, and which has been placed in an accessible location, where it will attract interest and inspection and give added confidence to the consumer, if that is necessary, that matters of water supply are being given the attention which they deserve. This plant marks the cumulative efforts of many boards and many men to give to Cambridge an adequate, safe and attractive supply of water.

After the modest beginning in 1855 when Fresh Pond was the sole source of supply, it became necessary later to build the Stony Brook basin and then the upper and lower Hobbs Brook Reservoirs, together with the Stony Brook conduit, the Payson Park Reservoir and the great extensions to the distribution service.

No serious epidemics of disease have been traced to the water in the past. In fact, a few years ago Cambridge had the lowest typhoid death rate of any city in the United States. Increased population and increased travel on the watersheds of the various reservoirs have magnified the potential danger in recent years, and the time arrived when wisdom dictated the use of some system of purification if the supply was to be longer continued. Furthermore, standards for pure water have become more rigorous and people now demand a water that is not only safe and wholesome but one that is attractive in its physical





SAMPLE TABLES

appeal. Cambridge water has been lacking in the latter. As purchasers of water from the city, the people of Cambridge are entitled to a clean and attractive as well as a safe water. Such are the reasons for erecting this plant, which will refine as well as purify the water which has been used up to this time.

It has fallen to my lot to supervise the operation of this purification works with respect to the quality of the water delivered by it. As a citizen of Cambridge and a member of the university within its midst, I am grateful for this opportunity and shall take pride in attempting to produce the best possible water. This task will be the easier for knowing that such is the aim of every man connected with the purification plant. We hope to merit the interest and approval of the people of the community and give them just cause for pride in their water works.

MAJ.-GEN. BREWSTER SPEAKS

Maj.-Gen. Brewster quoted some poet as saying that he had "rather drink water from a babbling brook than quaff excitement from a golden chalice." He claimed that the poet, if he had carried out his wish, was probably singing to the accompaniment of a golden harp, as water from "a babbling brook" was a dangerous thing in many cases. He complimented the people of Cambridge on the foresight of their public servants in making this forward step and predicted that it would meet with their hearty approval.

The exercises were then concluded, but the plant was kept open for the rest of the afternoon and evening and many people visited it. It will be open to the public every day until 5 o'clock and the Water Board and Supt. Good are anxious to have the people of Cambridge visit is so that they can understand just what is being done and how it operates.

DESCRIPTION OF THE NEW FILTRATION PLANT

The new water purification plant, or filtration plant, as it will probably be popularly known, gives Cambridge the very latest ideas in modern water purification by means of the rapid sand filtration process. This process is rapidly superseding the old slow sand filtration method, both because it requires far less space and because the improvements in this

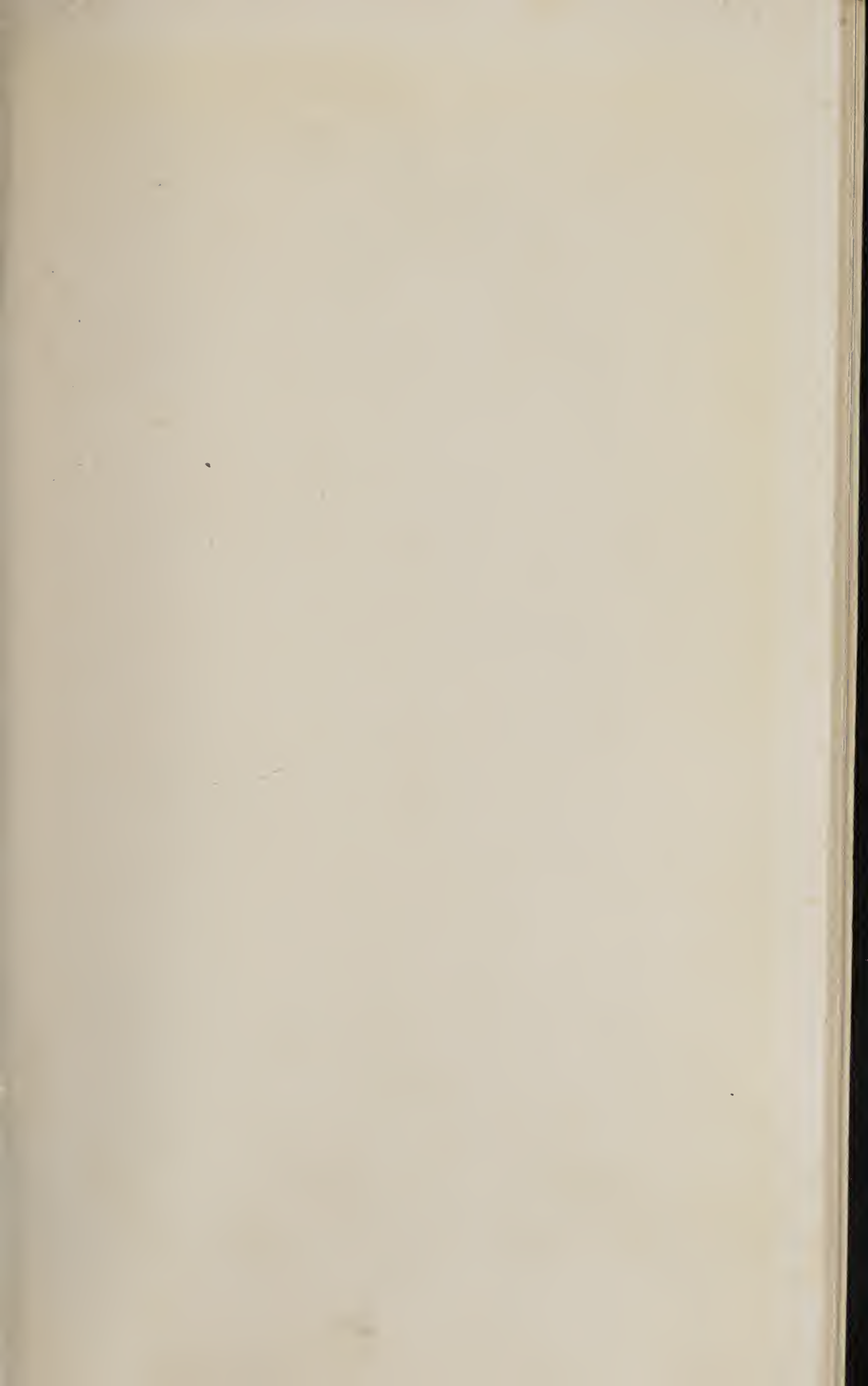
process have made it possible to purify large quantities of water in a satisfactory manner. The Cambridge plant is the first of its kind in Massachusetts and the largest of its kind in New England. Its construction was undertaken only after a long study of the local water supply situation during which the question of entering the metropolitan system was strongly urged by many people. The water board considered the matter from all angles and decided that Cambridge could provide her own water supply for years to come for less than the entrance fee into the metropolitan system and that some means of purification was necessary if Cambridge was to use her own water.

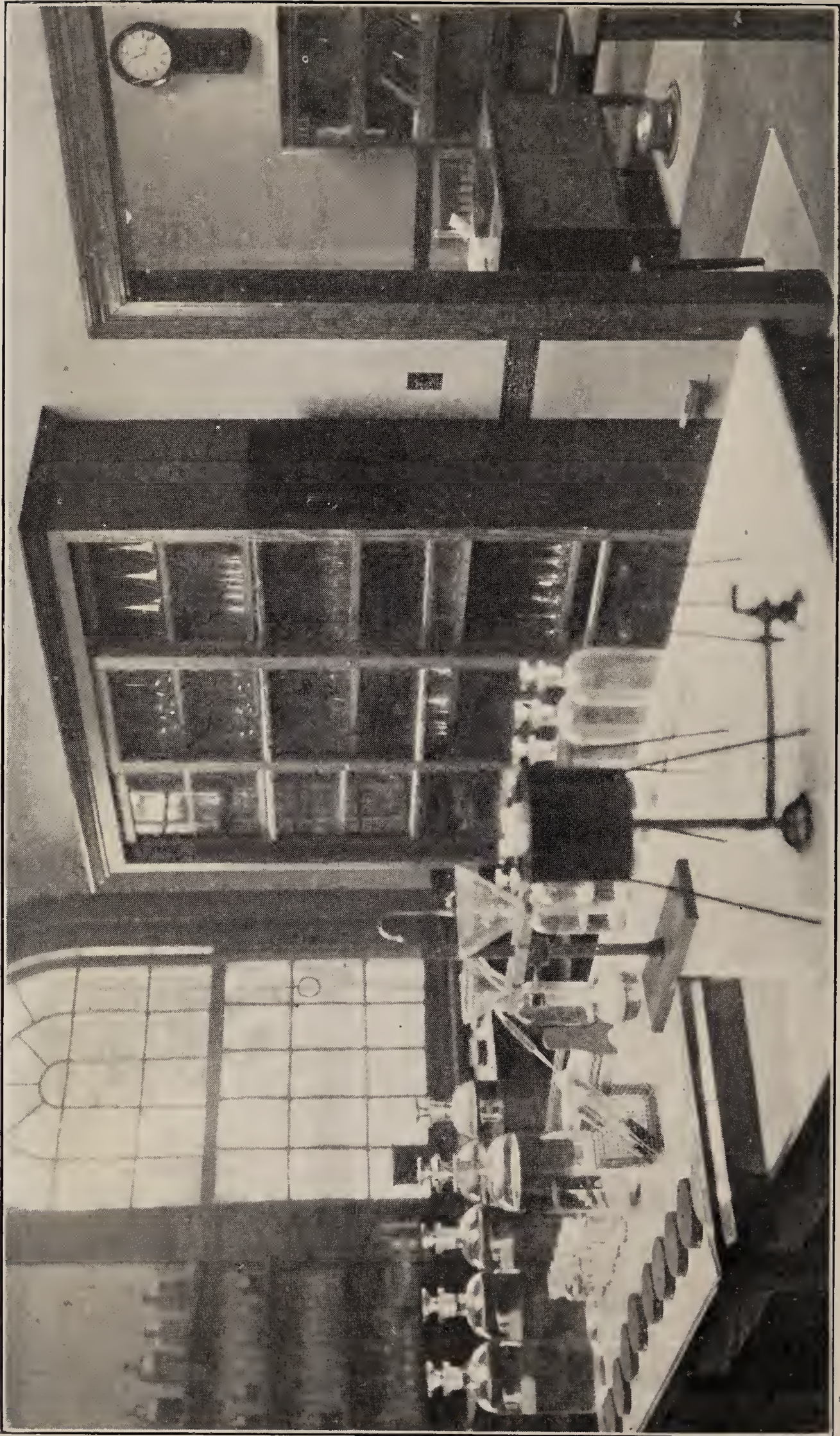
In meeting this problem of filtration the Water Board has been fortunate in having the services of Col. George A. Johnson, of New York, who has been the consulting expert of the board for several years and who is one of the leading experts on water supply, water purification and general municipal sanitation in the country. Col. Johnson supervised the drawing of the plans for the filtration plant and all the work has been done under the supervision of his assistant, Fred S. Childs, who has been the resident engineer.

For those who do not go in automobiles the plant is most easily reached by leaving the Huron Avenue trolley at Fresh Pond Parkway, where a short walk brings one to the main entrance of the building, facing on Fresh Pond.

The building is of the Georgian type, a two-story structure 223 feet long and 71 feet deep, with a central tower housing the wash water tank. The first story is of concrete and the second story is faced with tapestry brick and has synthetic stone trimmings. Over the main entrance are the seals of the state and city. The roof is flat and is concrete covered with a waterproof surface. The windows of the upper story carry out the Colonial effect, with their small panes and casements curved at the top. This structure houses the ten filter beds, the administration offices and quarters for the laboratory and chemical treatment of the water, the wash water tank, the engine and pump rooms and other mechanical operations of the plant.

At the left of the entrance is the pump room and here are provided four horizontal centrifugal pumps to supply water from Fresh Pond when the gravity supply from Hobbs Brook





LABORATORY

is not sufficient to meet the demand. The pumps have varying capacity, as follows: one delivering 4,000,000 gallons daily; two delivering 6,000,000 gallons daily; and one delivering 10,000,000 gallons daily. They can be worked in any combination and are a safeguard against a break in the main from Hobbs Brook or a shortage in the supply from that source. There are also two horizontal centrifugal pumps with a capacity of 1,100 gallons per minute which deliver filtered water into the wash water tank for cleaning the filter beds and two vertical centrifugal pumps which have a capacity of 1,700 gallons per minute which return the used wash water to the sedimentation basin. All the pumps are electrically driven.

Returning to the main entrance and starting for the upper floor one sees on the right the final process in the purification of the water before it passes to the clear water basin which is located outside the main building and is underground. This is the aerator and is composed of sloping concrete slabs on which are fastened short baffles which overturn and retard the filtered water so that it is thoroughly exposed to the air. This process releases any free carbonic acid and offensive odors which might remain in the water and it sparkles against the white tiling at the entrance and exit of the aerator as if conscious of its purity.

Going up the main staircase one enters the main office of the plant where the superintendent's office and quarters for the Water Board are located. At the left is the laboratory where examinations of the water will be made at regular intervals and from which the amount of chemicals for purification will be controlled. Here are seen on exhibition samples of the water; first, as it comes from the main; second, as it looks after the chemicals have been added; third, as it looks after leaving the aerator; and fourth, a sample taken from the mains at some distance from the filtration plant. The difference can plainly be seen, as the last two samples show no trace of coloring or any vegetable matter in suspension.

Beyond the quarters of the Water Board is the storage room where the supply of chemicals is kept and where the board has already stored a sufficient quantity for some time, purchased at favorable prices.

The most interesting part of the plant is situated on this

floor on the side of the building next to the railroad track. This is the room extending the whole length of the building in which are located the ten rapid sand filter beds. Each bed is 24 feet long by 20 feet wide, rectangular in shape, and is nine feet deep, with a filtering capacity of 480 square feet. Each bed can filter 1,400,000 gallons of water every 24 hours, giving the entire plant a capacity of 14,000,000 gallons daily, or about 30 per cent. over the present daily consumption of the city. There are also other bases ready for the construction of additional filter beds, should they become necessary, outside the building located on top of the clear water basin which lies underground between the building and the railroad track.

Each bed is an individual unit and can be shut down for cleaning or repairs without stopping the operation of any of the others. They are operated from individual controlling levers, handled from the platform of the filter room, where dials show the rate of flow through the bed and levers control the flow from the various basins and tanks.

In the center of the building is a tank 29 feet in diameter and 34 feet high which holds filtered water with which the filter beds are washed. This contains a sufficient supply to wash two beds in succession without refilling, although the pumping arrangements provide for an automatic supply as soon as washing starts.

This completes the visible portion of the plant, but there are other interesting and important portions of it which are underground. West of the building and indicated by a brick gatehouse is the sedimentation basin, made of concrete, 137 feet long, 96 feet wide and 16 feet deep. This covers approximately one-third of an acre and has a capacity of 1,500,000 gallons which is $2\frac{1}{2}$ hours flow when the filter beds are operating at full capacity. The water passes through this basin slowly, giving time for some of the vegetable matter to settle before it goes to the filter beds. A distributing weir and downward baffle are provided at the entrance to this basin and a skimming weir at the exit. Pumps, overflow and gate chambers are provided to clean this basin which is divided into two sections so that one half can be cleaned without disturbing the operation of the plant.

The clear water basin is situated between the building and

the railroad tracks and is a covered reservoir 274 feet long and 147 feet wide with a capacity of 4,000,000 gallons. It holds three hours' supply for the main pumping station and stores enough water to make up for any deficiency of the filters during the regular 16-hour period which the pumps operate. It can be by-passed, if necessary, the filtered water delivered direct to the pumping station.

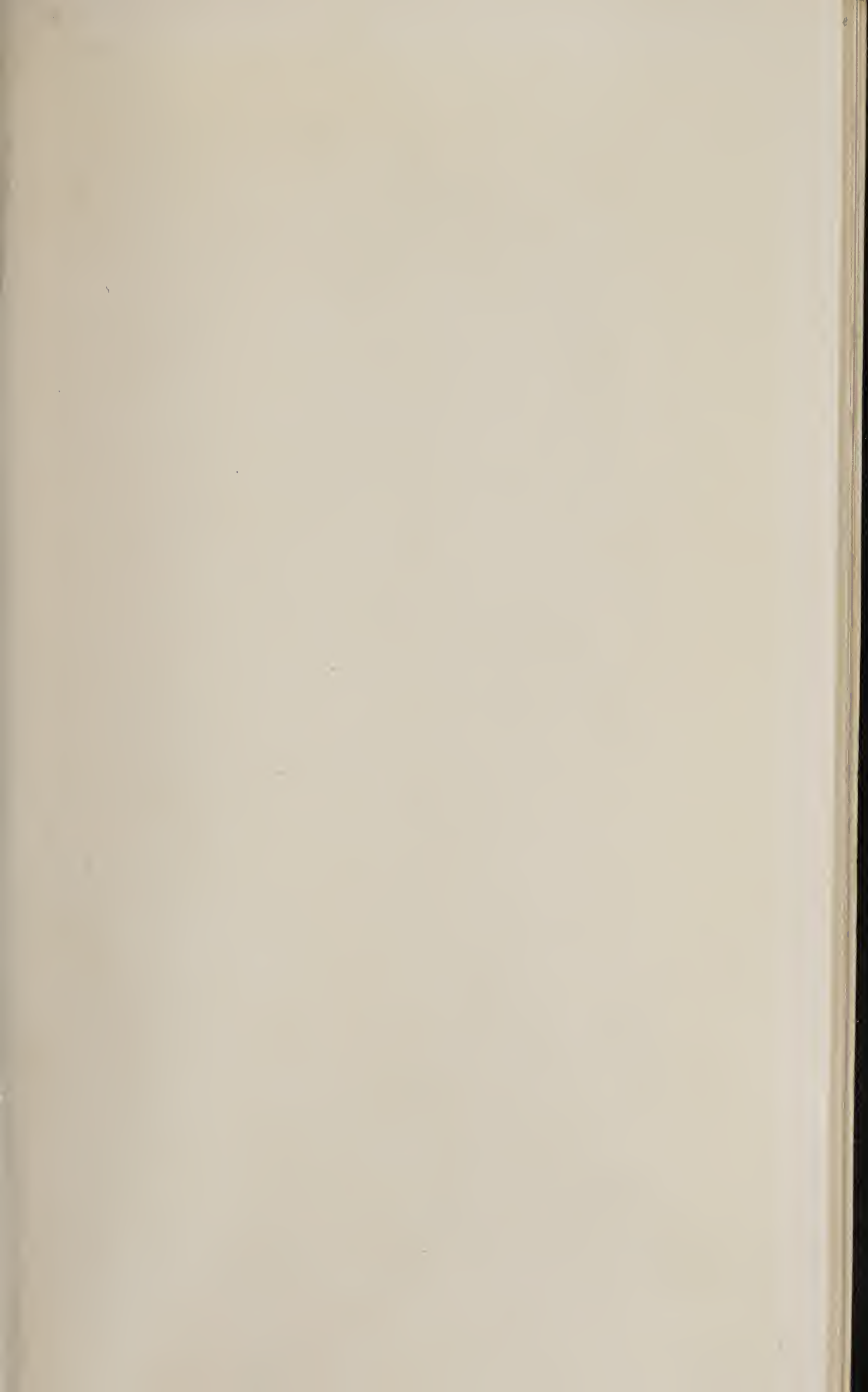
At the east of the building is the wash water receiving basin where the water is sent which has been used in cleaning the filter beds. It is a concrete tank 37 feet 6 inches in diameter and 10 feet deep.

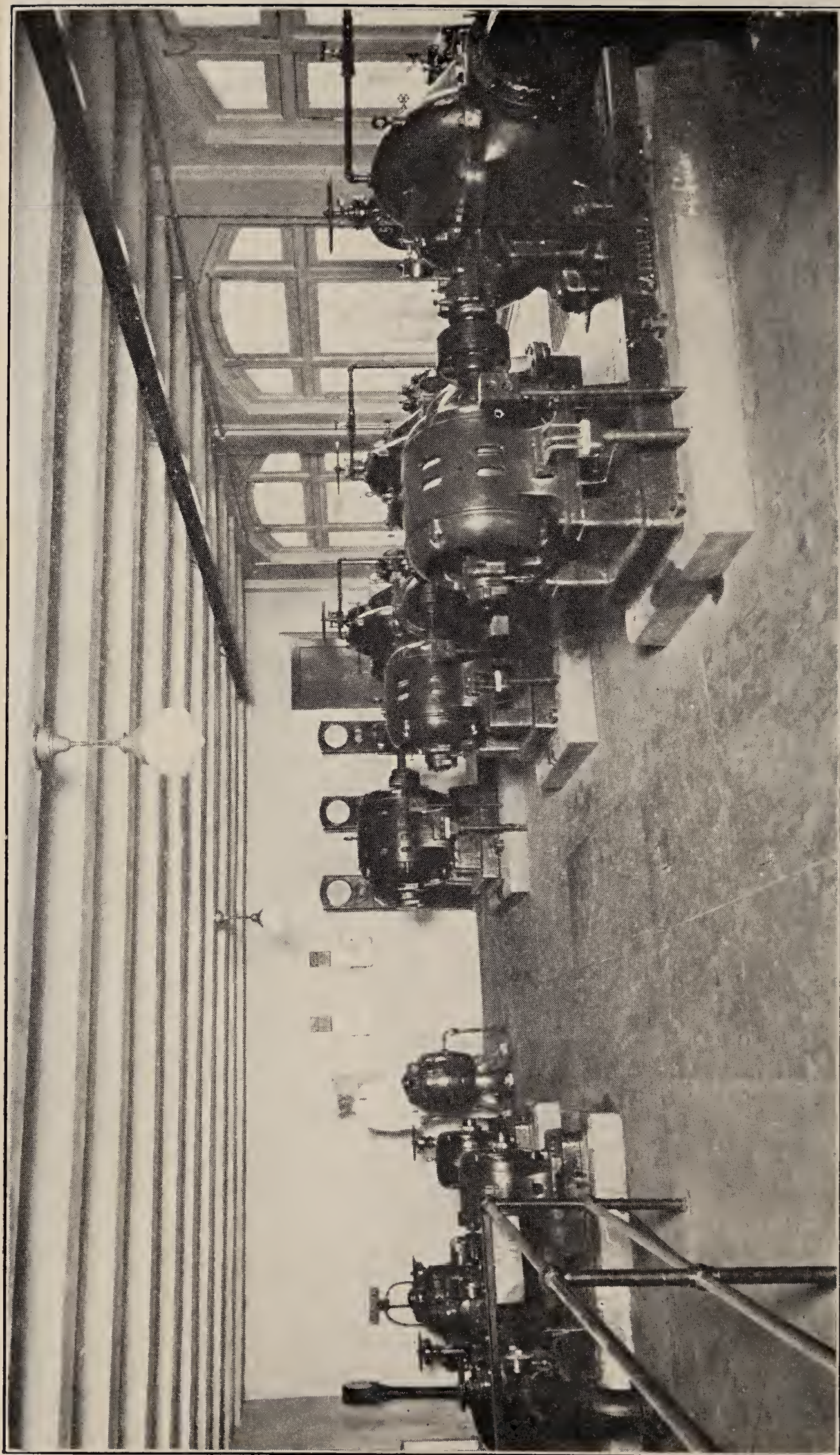
The water enters the sedimentation basin by gravity from Hobbs Brook and is there treated with sulphate of alumina to coagulate any vegetable matter which may exist and permit it to settle. During periods of high water it may also be necessary to add a small amount of soda ash at this point to make up any deficiency in alkalinity and insure complete decomposition of the coagulant. The water passes slowly through this basin and flows thence through a 48-inch pipe to the entrance to the filter beds where it is admitted through hydraulically operated gates to the individual filters. There it passes through 27 inches of specially prepared filter sand and 9 inches of graded gravel to the filter floor. This consists of pyramidal depressions, each $5\frac{1}{2}$ inches deep and 8.8 inches across at the base, with a $\frac{3}{4}$ inch brass tube set at the apex. The water passes through these filter bottoms and is collected and passes to a flume below which takes it to the aerator where it is completely exposed to the air for the removal of offensive odors. It then leaves the aerator for the clear water basin, receiving on the way a small dose of liquid chlorine as a final step in the removal of any bacteria which may have survived the trip through the filter beds.

The filter beds are washed daily and the process is most interesting. First the flow of water from the sedimentation basin is shut off. Then water from the wash water basin is turned on under heavy pressure and enters the filter beds through the filter bottoms. Soon little geysers spring up all over the filter bed and the dirty water and impurities are permitted to run off to the wash water basin until only a clear flow is seen coming from the beds. Then the wash water is turned off and the supply is turned on again from the sedimentation basin.

The contract price of the plant was \$723,900 and the general contract was carried out by Coleman Brothers, of Boston. The filter equipment was installed by the Roberts Filter Manufacturing Company, of Darby, Philadelphia, and the Wheeler filter bottom was installed by the New York Continental Jewell Filtration Company, of Nutley, N. J.

The new plant is bound to be an object of interest to water officials from all parts of New England and the Water Board have abundant reason to be proud of the facilities which have been provided. The plans have provided for the future as well as for the present and the capacity of the plant is well over the estimated needs for a number of years to come.





PUMP ROOM

REPORT OF THE GENERAL SUPERINTENDENT
OF THE CAMBRIDGE WATER WORKS

April 1, 1924.

To the Honorable Water Board of the City of Cambridge.

GENTLEMEN:—The annual report of the General Superintendent for the year ending March 31, 1924, is hereby respectfully submitted.

The financial report, which has formerly been compiled by our Registrar, will now be incorporated in the report of the General Superintendent.

Amount of bills unpaid March 31, 1923:

Water rates	\$20,499 46	
Supplies and repairs	4,449 71	
Off and on	101 00	
Seals	24 00	
Maintenance and building accounts.....	3,219 07	
		<u>\$28,293 24</u>

Amount of bills placed in the hands of the City Treasurer for collection from April 1, 1923, to March 31, 1924:

Water rates	\$458,261 39	
Supplies and repairs	11,210 49	
Off and on, seals, and rents	1,266 40	
Maintenance and building accounts.....	22,433 45	
		<u>\$493,171 73</u>
		<u>\$521,464 97</u>

There have been collected:

Water rates (schedule)	\$111,100 25
Water rates (meters)	353,754 39
Miscellaneous	35,338 38
	<u>\$500,193 02</u>

There have been abated:

Water rates	\$5,663 15
Meter rates	6,894 46
Miscellaneous	5,345 93
	<u>17,903 54</u>

There remain uncollected:

Water rates	\$1,383 40	
Supplies, repairs, etc.	1,339 74	
Miscellaneous	639 52	
Seals, off and on	5 75	
	<hr/>	3,368 41
		<hr/>
		\$521,464 97

EXPENDITURES

Maintenance account from April 1, 1923 to March 31, 1924	\$442,664 08	
Serial bonds paid	45,000 00	
	<hr/>	\$487,664 08

See page 511 for details.

REFUNDS

From April 1, 1923, to March 31, 1924:		
On schedule rates	\$862 46	
On meter rates	86 00	
	<hr/>	\$948 46
(Included in expenditures.)		
Which amount deducted from receipts.....	500,193 02	
	<hr/>	
Makes net receipts from all sources.....		\$499,244 56

Statements of yearly revenue received from water rates since the purchase of the works by the City:

From April 28, 1865, to December 1, 1865.....	\$32,367 19
From December 1, 1865, to December 1, 1866.....	40,073 27
From December 1, 1866, to December 1, 1867.....	53,733 62
From December 1, 1867, to December 1, 1868.....	63,747 42
From December 1, 1868, to December 1, 1869.....	76,149 30
From December 1, 1869, to December 1, 1870.....	92,605 95
From December 1, 1870, to December 1, 1871.....	111,782 65
From December 1, 1871, to December 1, 1872.....	127,201 30
From December 1, 1872, to December 1, 1873.....	146,117 32
From December 1, 1873, to December 1, 1874.....	153,634 27
From December 1, 1874, to December 1, 1875.....	138,880 37
From December 1, 1875, to December 1, 1876.....	179,166 76
From December 1, 1876, to December 1, 1877.....	154,843 59
From December 1, 1877, to December 1, 1878.....	157,443 91
From December 1, 1878, to December 1, 1879.....	164,681 90
From December 1, 1879, to December 1, 1880.....	173,325 49
From December 1, 1880, to December 1, 1881.....	170,062 73
From December 1, 1881, to December 1, 1882.....	177,430 80
From December 1, 1882, to December 1, 1883.....	179,361 89
From December 1, 1883, to December 1, 1884.....	161,526 27
From December 1, 1884, to December 1, 1885.....	185,544 36
From December 1, 1885, to December 1, 1886.....	199,404 43
From December 1, 1886, to December 1, 1887.....	204,748 64

From December 1, 1887, to December 1, 1888.....	211,156 27
From December 1, 1888, to December 1, 1889.....	221,124 70
From December 1, 1889, to December 1, 1890.....	231,116 32
From December 1, 1890, to December 1, 1891.....	227,054 53
From December 1, 1891, to December 1, 1892.....	237,527 08
From December 1, 1892, to December 1, 1893.....	242,219 78
From December 1, 1893, to December 1, 1894.....	250,032 71
From December 1, 1894, to December 1, 1895.....	268,813 62
From December 1, 1895, to December 1, 1896.....	281,030 00
From December 1, 1896, to December 1, 1897.....	291,457 62
From December 1, 1897, to December 1, 1898.....	267,129 78
From December 1, 1898, to December 1, 1899.....	302,569 00
From December 1, 1899, to December 1, 1900.....	319,479 37
From December 1, 1900, to December 1, 1901.....	320,468 01
From December 1, 1901, to December 1, 1902.....	323,000 53
From December 1, 1902, to December 1, 1903.....	333,777 34
From December 1, 1903, to December 1, 1904.....	339,109 27
From December 1, 1904, to December 1, 1905.....	343,916 00
From December 1, 1905, to December 1, 1906.....	355,768 47
From December 1, 1906, to December 1, 1907.....	373,151 35
From December 1, 1907, to March 31, 1909 (16 months).....	410,533 41
From April 1, 1909, to March 31, 1910.....	351,264 86
From April 1, 1910, to March 31, 1911.....	375,722 42
*From April 1, 1911, to March 31, 1912.....	353,891 02
From April 1, 1912, to March 31, 1913.....	385,475 71
From April 1, 1913, to March 31, 1914.....	383,342 41
From April 1, 1914, to March 31, 1915.....	396,827 26
From April 1, 1915, to March 31, 1916.....	394,908 36
From April 1, 1916, to March 31, 1917.....	401,607 91
From April 1, 1917, to March 31, 1918.....	358,335 70
From April 1, 1918, to March 31, 1919.....	423,906 19
From April 1, 1919, to March 31, 1920.....	403,250 84
From April 1, 1920, to March 31, 1921.....	453,775 94
From April 1, 1921, to March 31, 1922.....	441,109 10
From April 1, 1922, to March 31, 1923.....	486,098 14
From April 1, 1923, to March 31, 1924.....	500,193 02

*Reduction in water rate schedule.

COMPARATIVE STATEMENT

	Received	
	1922-1923	1923-1924
From all sources.....	\$486,098 14	\$500,193 02
	Expended	
General pumping, reser- voirs, filtration inter- est, serial bonds.....	\$372,802 75	\$487,664 08
Balance due water works	113,295 39	12,528 94
	<hr/> 486,098 14	<hr/> 500,193 02

The above surplus receipts (\$12,528.94) for the year 1923-4 are retained in the City Treasury to the credit of the Water Department as required by law.

REPORT OF THE GENERAL SUPERINTENDENT OF THE CAMBRIDGE WATER WORKS

The annual report of the General Superintendent's department for the year ending March 31, 1924, is hereby respectfully submitted.

The pumpage this year is increased 220 million gallons over last year (averaging about 5 gallons per day increase per capita) or 103 gallons per capita per day.

Since 1912 our per capita average has not exceeded 100, which demonstrates that our system for leakage inspection is thorough.

As in previous years, we have had no anxiety because of shortage of water supply and at this date both Hobbs and Stony Reservoirs are full and overflowing.

The average elevation at Fresh Pond has been 14.58—about 2.27 feet below high water mark (16.85). Its highest elevation was reached on June 10, 1923 (17.18) and its lowest on November 2, 1923, (11.30).

In Stony Brook Reservoir the water reached its highest elevation on May 1, 1923 (84.08) and on October 15 its lowest elevation was reached (67.53).

Both basins of our Hobbs Brook Reservoir have been kept at the same elevations during the year, the highest elevation having been reached on April 6, 1923 (183.82) and the lowest on November 23, 1923 (177.07).

When we consider the prophecies that were made relative to a possible shortage of water for Cambridge we feel that we are still in a condition that would guarantee an adequate supply for our City. The additional storage capacity of our upper basins provided for any reasonable increased use by our consumers and increased population.

Comparison of Pumpage

	Pumpage for year ending March 31, 1923	Pumpage for year ending March 31, 1924	Increase	Decrease
	Gallons 1922	Gallons 1923		
April	324,022,800	350,044,100	26,021,300	.....
May	338,148,800	365,283,000	27,134,200	.....
June	339,384,600	368,593,000	29,208,400	.....
July	352,000,000	375,365,000	23,365,000	.....
August	349,148,800	366,707,600	17,558,800	.....
September	328,029,600	345,160,200	17,130,600	.....
October	342,812,800	378,020,400	35,207,600	.....
November	324,354,400	356,559,600	32,205,200	.....
December	354,103,800	355,317,000	1,213,200	.....
	1923	1924		
January	376,864,400	381,368,800	4,504,400	.....
February	352,000,000	361,363,600	9,363,600	.....
March	368,235,600	366,081,600	.....	2,154,000
	4,149,105,600	4,369,863,900	220,758,300	.....

Comparative Total Pumpage During the Past Sixteen Years
Fiscal Year Ends March 31

Yr.	Annual Pumpage	Increase or Decrease	Average Daily Pumpage	Increase or Decrease	Av. Daily Pump- age per cap.	Esti- mated Popu- lation
	Gallons	Gallons	Gallons	Gallons	Gals.	
1909	3,692,451,980	149,718,360 decrease	10,116,307	381,426 decrease	101.00	109,000
1910	3,678,588,720	13,863,260 "	10,078,325	37,982 "	97.84	103,000
1911	3,794,689,680	116,100,960 increase	10,396,410	318,085 increase	99.16	104,839
1912	3,868,026,800	73,337,120 "	10,568,380	171,970 "	100.00	104,839
1913	3,827,528,600	40,498,200 decrease	10,486,380	82,000 decrease	95.33	110,000
1914	3,985,123,900	157,595,300 increase	10,948,142	461,762 increase	95.75	112,000
1915	3,434,421,300	550,702,600 decrease	9,409,373	1,538,769 decrease	82.53	114,000
1916	3,409,230,800	25,190,500 "	9,314,838	94,535 "	81.70	114,000
1917	3,509,464,600	100,233,800 increase	9,614,971	300,133 increase	84.34	114,000
1918	3,757,413,400	247,948,800 "	10,294,282	679,311 "	90.30	114,000
1919	3,900,317,100	142,903,700 "	10,685,800	391,518 "	93.73	114,000
1920	3,990,502,200	90,185,100 "	10,903,011	217,211 "	94.89	114,900
1921	4,043,917,000	53,414,800 "	11,079,224	176,213 "	96.42	114,900
1922	4,042,409,300	1,507,700 decrease	11,075,094	4,130 decrease	96.38	114,900
1923	4,149,105,600	106,696,300 increase	11,367,412	292,318 increase	98.00	114,900
1924	4,369,863,900	220,758,300 "	11,939,519	572,107 "	103.00	114,900

Census 1920—109,456

Total Rainfall for Year 1923-1924

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
1923			
April	3.97	5.07	5.28
May .....	.56	1.03	1.21
June	1.85	2.63	2.67
July	2.68	3.54	3.08
August	1.99	1.70	1.54
September .....	.35	.98	1.33
October	3.11	4.23	4.51
November	2.89	4.99	4.86
December	4.05	5.02	5.33
1924			
January	3.41	3.65	3.45
February	2.02	2.51	2.34
March	1.56	1.74	2.15
	28.44	37.09	37.75

Total Rainfall for the Past Sixteen Years

	Fresh Pond Reservoir	Stony Brook Reservoir	Hobbs Brook Reservoir
	Inches	Inches	Inches
1909.....	30.67	34.87	34.77
1910.....	34.97	37.83	35.08
1911.....	28.86	31.78	28.26
1912.....	35.60	42.63	39.90
1913.....	30.58	41.22	40.26
1914.....	39.24	42.13	40.71
1915.....	31.11	34.44	33.02
1916.....	39.70	41.90	45.32
1917.....	37.45	37.11	35.88
1818.....	38.14	38.69	34.84
1919.....	36.81	41.24	39.87
1920.....	45.20	51.33	21.37*
1921.....	40.52	44.21	44.44
1922.....	43.63	44.11	47.62
1923.....	48.22	50.74	48.54
1924.....	28.44	37.09	37.75

*For six months only.

FRESH POND PUMPING STATION

WATER BOARD

485

	Engine No.	RUNNING TIME			PUMPAGE		COAL CONSUMED		Rain-fall In.	Av'ge Height of Pond Feet
		No. of Days	Total Hours	Daily Average Hours	Total Gallons	Daily Average Gallons	Total Lbs.	Daily Average Lbs.		
1923	1	7	166.00 }	23.43						
	2	7	162.00 }							
April	7	23	332.25	14.44	350,044,100	11,668,136	582,900	19,430	3.97	16.48
	1	31	730.50	23.56						
May	2	31	699	22.55	365,283,000	11,783,322	894,500	28,854	.56	16.91
	1	30	720	24.						
June	2	30	709	23.63	368,593,000	12,286,433	893,400	29,780	1.85	17.11
	1	31	730	23.55						
July	2	31	734	23.68	375,365,000	12,108,548	915,600	29,535	2.68	Off
	1	22	520	23.57						
August	2	22	517							
	7	9	136	15.11	366,707,600	11,829,277	805,200	25,974	1.99	15.62
	1	3	72	24.						
	2	3	72							
September	7	27	381.75	14.14	345,160,200	11,505,340	527,700	17,590	.35	15.61
October	7	31	478	15.42	378,020,400	12,194,206	538,000	17,354	3.11	13.76
November	7	30	442.25	14.74	356,559,600	11,885,320	508,700	16,956	2.89	11.47
December	7	31	441.50	14.24	355,317,000	11,461,838	506,800	16,348	4.05	12.67
1924										
January	7	31	473.25	15.26	381,368,800	12,302,219	543,400	17,529	3.41	14.04
February	7	29	447.50	15.43	361,363,600	12,460,813	512,900	17,686	2.02	14.66
March	7	31	478.15	15.42	366,081,600	11,809,084	522,700	16,861	1.56	15.42
Total					4,369,863,900		7,751,800		28.44	
Daily Av'ge						11,939,519		21,179		14.58

FRESH POND

		Highest Elevation during Month.	Lowest Elevation during Month	Average Height of Pond	Rainfall by Month	Pumpage
					Inches	Gallons
1923						
April	1		15.96			
April	18	16.89		16.48	3.97	350,044,100
May	1		16.79		.56	*365,283,000
May	8	16.96		16.91		
June	1		17.04		1.85	†368,593,000
June	10	17.18		17.11		
July					2.68	‡375,365,000
July						
August	26		15.58			
August	31	15.65		15.62	1.99	§366,707,600
September	2	16.12				
September	30		15.26	15.61	.35	345,160,200
October	1	15.25				
October	31		11.70	13.76	3.11	378,020,400
November	2		11.30			
November	30	11.82		11.47	2.89	356,559,600
December	1		11.84			
December	31	13.48		12.67	4.05	355,317,000
1924						
January	1		13.55			
January	26	14.42		14.04	3.41	381,368,800
February	1		14.34			
February	29	14.94		14.66	2.02	361,363,600
March	1		14.95			366,081,600
March	31	15.89		15.42	1.56	
Total					28.44	4,369,863,900
Daily average				14.58		

*Pond cut off from Station May 9 to May 26.

†Pond cut off from Station June 17 to June 30.

‡Pond cut off from Station during July.

§Pond cut off from Station Aug. 1 to Aug. 26.

OPERATING EXPENSES AT THE PUMPING STATION

April 1, 1923—March 31, 1924

A—Personal Service

1. Permanent employees	\$20,390 38
2. Transient employees:	
Coal passing	1,737 00
Coal unloading	344 73
Vacation supply man	562 50
Deepening well	1,058 49

\$24,093 10

B—Service Other Than Personal

3. Advertising and posting	\$16 17	
4. Transportation of persons	25 00	
5. Cartage and freight	39 76	
8. Light and power	809 05	
9. Lighting streets, alleys, etc.....	88 51	
13. Communication	103 81	
24. Blacksmith	17 64	
36. Boiler inspection	5 00	
39. Service not otherwise coded.....	8,683 70	
		<hr/> 9,788 64

C—Equipment

13. Tools and instruments.....	\$16 93	
16. Wearing apparel	43 80	
17. Equipment not otherwise coded.....	27 76	
		<hr/> 88 49

D—Supplies

1. Office	\$10 10	
2. Food and ice	85 92	
3. Fuel and freight	34,636 17	
8. Laundry, cleaning, etc.	31 85	
13. Chemicals, disinfectants	7 55	
16. Supplies not otherwise coded.....	4,615 11	
		<hr/> 39,386 70

E—Materials

6. Water	\$194 04	
		<hr/> 194 04

F—Specials Items

11. Workingmen's Compensation	\$68 00	
		<hr/> 68 00
		<hr/> \$73,618 97

PUMPING STATISTICS

1. Builders of pumping machinery: One Leavitt engine of 20,000,000 gallons capacity per 24 hours, built by Groshen High Duty Pumping Engine Company. Two Worthington Compound Duplex engines of 5,000,000 gallons capacity each per 24 hours. Total capacity, 30,000,000 gallons per 24 hours.
2. *Description of fuel: Kind, bituminous. Brand and price of coal: "New River" at \$7 to \$8.55 per ton.
3. Coal consumed during year, 7,751,800 pounds. Daily average coal consumed, 21,179 pounds. Coal per million gallons pumped, 1,774 pounds. Total pumpage for the year with-

out allowance for slip, 4,369,863,900 gallons. Daily average 11,939,519 gallons.

4. Average static head against which the pump works, 158.92.
5. Average dynamic head against which the pump works, 191.06.
6. Duty, for the last six months of the year when the Leavitt engine was in commission, 111,844,052.
7. Cost of pumping figured on pumping station expenses, viz.: \$73,618.97.
8. Per million gallons pumped, 16.85.
9. Per million gallons raised one foot (dynamic) \$.088.

*Number 1 and 2 engines were on duty in May, June, July, etc.

STATISTICS OF CONSUMPTION OF WATER

For the year extending from April 1, 1923 to March 31, 1924.

Total population, census of 1920, 109,506.

Estimated population supplied on lines of pipes, 114,900.

Total pumpage for the year, 4,369,863,900 gallons.

Average daily pumpage 11,939,519 gallons.

Gallons per day to each inhabitant (pumpage), 103.

Gallons per day to each tap in use (pumpage), 781.

Total cost of supplying water per million gallons pumped figured on "Total Maintenance" (\$487,664.08);-\$111.62.

Cost of supplying water per million gallons figured on "Operating Expenses" (\$367,007.29), \$84.00.

Cost of filtering water per million gallons, figured on expenses of filtration plant for ten months (\$37,660.74), \$10.34.

SUMMARY OF STATISTICS

In form recommended by the New England Water Works Association.

CAMBRIDGE WATER WORKS

Cambridge, Middlesex County, Massachusetts.

GENERAL STATISTICS

Population by census 1920, 109,546.

Estimated population March 31, 1924, 114,900.

"Cambridge Water Works Corporation" was chartered in 1852 and organized in 1853.

The works were constructed in 1855, Mr. John Blake, consulting engineer, and came into possession of the city by purchase in 1865, when they were called "Cambridge Water Works."

The original source of supply was Fresh Pond in Cambridge and Belmont, which was enlarged by connection via conduit with Wellington Brook and Spy Pond, Arlington. The waters of these additional sources were adjudged unfit for domestic use in 1880 and since that time have not been utilized for a supply in Cambridge.

In 1887, Fresh Pond was augmented by a storage reservoir which had been constructed on Stony Brook, located in Weston and Waltham.

The waters from this brook are brought to Fresh Pond by a conduit, originally a thirty-inch cast iron pipe, which was laid through Waltham and Watertown to Fresh Pond Reservoir.

This extension of the works was made under the direction of Mr. Henry N. Crafts, as consulting engineer, and our City Engineer, Mr. W. S. Barbour.

The population of the city was about 60,000 in 1887.

In 1897, an additional provision was made for storing water

by the construction of two large reservoirs artificially formed by constructing two dams across Hobbs Brook, which is a tributary of Stony Brook, and flows through Lexington and Lincoln.

Payson Park Distributing Reservoir also was completed in 1897.

Consulting engineers, Mr. A. Fteley and Messrs. Rice and Evans, and our City Engineer, Mr. L. M. Hastings, directed the construction of these reservoirs.

The population was about 87,500 in 1897.

In 1905 and 1906, two sections of the Stony Brook pipe line were rebuilt; the new conduit was made of concrete, sixty-three inches in diameter. Another part was rebuilt in 1908, when a new thirty-inch main of cast iron was laid to replace 1,500 feet of old thirty-inch line which has been abandoned.

The consulting engineer for the concrete conduit was Mr. Freeman C. Coffin, assisted by our City Engineer, Mr. L. M. Hastings.

The new thirty-inch main was laid under the supervision of the Water Works Superintendent, Mr. E. C. Brooks.

The conduit is constructed as follows:

From Fresh Pond to River Street, Waltham, 27,405 feet of 63-inch concrete.

From River Street to Stony Brook Dam, 1,500 feet of 30-inch (new); 6,023 feet of 30-inch (old); 4,826 feet of 36-inch (old).

Mode of supply: gravity from Hobbs Brook and Stony Brook storage reservoirs to Fresh Pond receiving reservoir; pumping from Fresh Pond receiving reservoir to Payson Park distributing reservoir, through the 40-inch steel pumping main; thence, by gravity, to consumers through the 40-inch steel distributing main. The Leavitt engine, of 20,000,000 gallons capacity, is connected with this steel main.

In case of necessity the water can be pumped direct from the pumping station through the 30-inch and 24-inch cast iron pumping mains into the 40-inch steel distributing main. The Worthington engines are used in connection with these mains and are held in reserve for any possible emergency.

The length of this 40-inch steel pumping main from the Pumping Station to Payson Park Reservoir is 8,392 feet and

from the Payson Park Reservoir the 40-inch steel distributing main to the Cambridge Common is 14,924 feet; total, 23,316 feet.

METHOD OF PURIFYING CAMBRIDGE WATER

The water formerly flowing into Fresh Pond from Stony Brook is now diverted through a 42-inch pipe and enters the sedimentation basin (which has a capacity of 1,500,000 gallons). Here the chemical treatment takes place.

The water then flows to the filter beds and passes through three feet of graduated sand and gravel, where all suspended matter, caused by coagulation after chemical treatment, is removed.

The water then passes through an aerator, where all gases are removed, and finally receives chlorine in quantity sufficient to kill all germs.

The water then passes to the clear water basin (which has a capacity of 4,000,000 gallons), thence to the pumping station, whence it is pumped to Payson Park Reservoir for distribution to the consumers, by gravity.

In the event of insufficient flow from Stony Brook, a low lift pump room has been constructed, and provision has been made to pump the water, when necessary, from Fresh Pond direct to the sedimentation basin, through a unit of high speed centrifugal pumps. Of these, one is 10,000,000, two of 6,000,000 each, and one of 4,000,00 gallons capacity, and are sufficient to care for any emergency that may arise.

The plant has a capacity of filtering 15,000,000 gallons per day.

At present, our daily average pumpage is 11,939,500 gallons.

Our storage capacity, figured at high elevations in our reservoirs is at

Hobbs Brook (elevation 183.25)	3,181,000,000	gallons
Stony Brook (elevation 183.00)	402,000,000	gallons
Fresh Pond (elevation 16.85)	700,000,000	gallons
Payson Park (elevation 178.50)	43,000,000	gallons
Total.....	4,326,000,000	gallons

STATISTICS RELATING TO DISTRIBUTING SYSTEM

Our 40-inch pumping main to and distributing main from Payson Park Distributing Reservoir is of steel.

The main pipes are of cast iron.

Sizes 2-inch to 40-inch.

Extensions during year, 3,654 feet.

Renewals during year, 1,895 feet.

Total now in use :

2-inch	7,855 feet
3-inch	1,400 feet
4-inch	70,894 feet
6-inch	367,635 feet
8-inch	96,105 feet
10-inch	32,638 feet
12-inch	86,799 feet
16-inch	11,605 feet
20-inch	25,275 feet
24-inch	15,367 feet
30-inch	1,357 feet
40-inch	550 feet
<hr/>	
	717,480 feet
	or 135.88 miles

Forty-inch steel main, 23,316 feet or 4.41 miles.

Total number of leaks :

Supplies	187
Main pipes	26
Hydrants	5
Gates	7
Blow offs	2
40-inch steel main	3
<hr/>	
	230
Found by inspectors	4,474
<hr/>	
	4704

Number of leaks on mains, etc., per mile for the year, 1.6.

There were five leaks (included above) caused by electrolysis during the year.

Of recent years the large percentage of leakage from this cause has been confined to the vicinity of the "Transformer Station" at Kendall Square, but during this year the leaks have been discovered in other locations, as follows.

No. 56 Broadway.

No. 60 Broadway.

No. 1 Hampshire Street.

No. 111 Inman Street.

No. 2463 Mass. Avenue.

MAIN PIPE

Extensions and Renewals, Year Ending March 31, 1924

	Extensions		Renewals		Gates	
	Feet	Size	Feet	Size	Size	Kind
		Ins.		Ins.	Ins.	
Alden Road from Broadway to Chatham St.	307	6				
Alden Road at Broadway.....					6	Smith
Alden Road at Chatham St.....					6	Rens.
Alpine St. from Concord Ave. to Field St..	350	6			6	Rens.
Alpine St. at Field St. (south).....						
Ballard Place from Putnam Ave. to Montague St.			205	4		
Ballard Place at Putnam Ave.....					4	Smith
Blakeslee St., on hydrants.....	12	6				
Camelia Ave. from Line St. (west).....	174	4				
Camelia Ave. at Line St. (west).....					6	Smith
Concord Ave. to near Blanchard Rd.....	160	12				
Concord Ave. at upper crossover.....					12	Kennedy
Elm St. (Somerville) in sidewalk, from Russell St. to Miller Ave.....	410	6				
Hancock Place			131	4		
					4	Rens.
Hawthorne Ave. from Huron Ave.....	215	8				
Hubbard Park from Lowell St.....	313	4				
					4	Smith
					4	Smith
Line St. extension (north).....	16	6				
Line St. to Leonard Ave.....	487	8				
Line St. at Hospital (boiler house).....					6	Rens.
Line St. to Leonard Ave. (south).....					8	Rens.
Longfellow Park extension to crossover from Willard St. Court.....	96	4				
Longfellow Road from Mt. Auburn St....	343	6				
Longfellow Road at Mt. Auburn St.....					6	Rens.
Malcolm Road on line of Standish St.....					6	Rens.
Massachusetts Ave., east side, from Exeter Park to Roseland St.....			718	8		
Massachusetts Ave. at Newport Rd. (south)					8	Chap.
Massachusetts Ave. on crossover at Forest St.					6	Rens.
Massachusetts Ave., west side at Linnaean St. (north)			2	10	10	Smith
Massachusetts Ave. on hydrant.....			4	6		
Memorial Drive at Vassar St. west.....	36	6				
Memorial Drive from Stiles St. to Western Ave.						
Merrill St. on line of Chatham St.....	2	6			6	Rens.
Miller Ave. from Elm St. (Somerville) to connect with 4 inch.....	29	6				
Miller Ave. at Elm St.....					6	Rens.
Mount Auburn St., 72 from Homer Ave....			3	4	4	Wood
Munroe St. from First to Second St.....			413	6		
Munroe St. on Ginn's supply.....			13	4	4	Wood
Munroe St. on Ginn's supply.....					6	Rens.
Munroe St. at Second St. (east).....					6	Rens.
Russell St. to connect Elm St.....	130	6				
Russell St. 122 ft. from Elm St. (south)..					6	Rens.
Russell St. at Orchard St. (south).....					6	Rens.
Tenney St. from Orchard St. to Elm St...			400	6		
Tenney St. at Orchard St.....					6	Rens.
Tenney St. at Elm St. (Somerville).....					6	Rens.
Thorndike St. on hydrant.....			6	6		
Vassar St.	423	8				
Willard Street Court.....						
Willard St. Court, extending to Longfellow Park	151	4			8	Rens.
Willard St. Court, 6 ft. from west line of Longfellow Park						
					4	Wood

MAIN PIPE

	12 Inch	10 Inch	8 Inch	6 Inch	4 Inch	T'l
Length, in feet, of cast iron pipe (extension)	160		1125	1635	734	3654
Length, in feet, of cast iron pipe (renewals)		2	718	823	352	1895
Total length laid during year.....	160	2	1843	2458	1086	5549
Number of additional hydrants.....						7
Number of gates on extensions.....	1	1	2	11	3	18
Number of gates on renewals.....			1	5	4	10
Number of gates on hydrants.....						17
Number of gate boxes.....						46

HYDRANTS—Year Ending March 31, 1924

	Removed	Installed	Equipped with 6 in. Gates
Alpine St., 124 feet from Field St.....		Corey	
Amesbury St., relocating, from premises of Gray & Davis, in street.....			Rens.
Banks St., corner Mt. Auburn St. (west).....	Boston	Holyoke	Rens.
Blakeslee St., 84 feet from Huron Ave.....		Holyoke	
Blakeslee St., 156 feet from Reservoir St.....		Corey	
Broadway, 57 feet from Third St. (east), relocated..	Corey	Holyoke	Rens.
Cogswell Avenue	Boston	Corey	Rens.
Dana St., at Chatham St. (gate only).....			Rens.
Elm St. (Somerville), 12 feet from Miller Ave. (west)		Holyoke	
Garfield St., from Oxford St. (west).....	Boston	Corey	Rens.
Harvard St., opposite Riverside Boiler Works.....	Chapman	Chapman	Rens.
Line St., at Boiler House (gate only).....			Rens.
Malcolm Road, 108 feet from Standish St.....	Boston	Corey	
Massachusetts Ave. (782).....	Chapman	Chapman	
Massachusetts Ave., 143 feet north from Newport Rd.		Holyoke	
Massachusetts Ave., at Davenport St. (relocated)....			Rens.
Massachusetts Ave., 6 feet west from White St.....	Boston	Holyoke	
Memorial Drive and Ames St.....	Chapman	Holyoke	
Munroe St., south side, 21 ft. west from First St....		Corey	Rens.
Munroe St., south side, 172 ft. east from Second St..		Corey	Rens.
Munroe St., north side.....	Chapman		
Pemberton St., 10 ft. west from Haskell St. (gate only)			Rens.
Russell St., opposite Cottage Ave. (Somerville).....		Corey	Rens.
Russell St., relocated Chapman hydrant.....			Rens.
Spring St., at Fourth St.....	Chapman	Chapman	Rens.
Thorndike St., corner Fifth St. (west).....	Chapman	Corey	Rens.
Thorndike St., near Portland St.....	Chapman	Corey	
Washington St., at Moore St. (gate only).....			Rens.

TOTAL NUMBER OF HYDRANTS IN USE, 1,250

Boston	82
Chapman	704
Coffin	41
Corey	62
Flush	3
Holyoke	178
Kennedy	87
Mathews	13
Perkins	80
	1250

Number of hydrants added during year 7
Number of gates added during year 52
Range of pressure on mains 55 to 60 pounds.

NEW SUPPLIES

Kind of pipe: galvanized iron, cast iron, tin lined, lead lined and cement lined.

Extended during the year, 5,747 feet.

Sizes, $\frac{3}{4}$ -inch to 8-inch.

Number of services added during year, 151.

$\frac{3}{4}$ -inch	70
1-inch	42
$1\frac{1}{4}$ -inch	3
$1\frac{1}{2}$ -inch	9
2-inch	10
4-inch	11
6-inch	8
<hr/>	
Total	153

Five of the foregoing supplies were of cement lined pipe, which was lined at our own shop by our own men.

The large supplies were laid as follows:

Cambridge Ice Co., Brookford Street.....	6-inch
Ginn & Co., Munroe Street (Fire)	6-inch
Ginsberg Harris, 576 Mass. Avenue.....	6-inch
Harvard Hall, Harvard University Yard	6-inch
Lovell & Hall, Whittemore Avenue (Fire).....	6-inch
Pignat Vicenzi Mosaic Co., 671 Mt. Auburn.....	6-inch
J. Shapiro, 620 Memorial Drive (Fire).....	6-inch
Houghton & Mifflin Co., Blackstone Street.....	6-inch
Boston Elevated Railway Co., Peabody Street (Fire).....	4-inch
Chauncy Realty Co., 52 Garden Street.....	4-inch
Ginn & Co., Munroe Street.....	4-inch
Harvard University, 17 Quincy Street (Elevator).....	4-inch
Harlow, Frank S., 41 Linnaean Street	4-inch
Hollis Hall, Harvard University Yard.....	4-inch
Massachusetts Institute of Technology, Ames Street.....	4-inch
Metropolitan Park Commission, Magazine Street.....	4-inch
Radcliffe College, Shepard Street ("Briggs Hall").....	4-inch
Simplex Wire & Cable Co., 95 Sidney Street.....	4-inch
J. Sorkin, 20 Ware Street.....	4-inch

Number in use at date, 15,278.

Average length of services for the past year38 feet

Average cost per supply (includes large supplies), \$75.84.

Average cost per supply (labor), \$31.90.

Number of meters added during year, 205.

Total number of meters, 7,422.

Percentage of services (in use) metered, 48.

SUPPLIES CLEANED

Year ending March	31, 1912.....	159
"	" 31, 1913.....	278
"	" 31, 1914.....	471
"	" 31, 1915.....	727
"	" 31, 1916.....	841
"	" 31, 1917.....	896
"	" 31, 1918.....	825
"	" 31, 1919.....	1,158
"	" 31, 1920.....	1,467
"	" 31, 1921.....	1,348
"	" 31, 1922.....	1,829
"	" 31, 1923.....	970
"	" 31, 1924.....	963
Total		11,932

Since 1923 a charge of \$5.00 has been made for each supply cleaned.

FIRE SUPPLIES

Three (3) fire supplies have been laid during the year.

The following list contains the number of unmetered (except where specified) fire supplies in commission at this date.

Allen & Endicott Building Co.....	63 Albany Street	6-in.
American Rubber Co.....	Binney Street	6-in.
American Rubber Co.....	Potter Street	6-in.
American Circular Loom Co.....	Clarendon Avenue	6-in.
American Circular Loom Co.....	Tannery Street (metered).....	2-in.
American Optical Co.....	150 Broadway	6-in.
Ashton Valve Co.....	161 First Street	6-in.
Associated Trust	888 Massachusetts Avenue.....	2-in.
Atwood & McManus.....	64 Aberdeen Avenue	6-in.
Barber Asphalt Paving Co.....	First Street	6-in.
Bell Confectionery Co., J. S.....	Sixth Street	6-in.
Blacker & Shepard Co.....	Osborn Street (metered).....	1½-in.
Blake & Knowles Steam Pump Wks....	Binney Street	8-in.
Blake & Knowles Steam Pump Wks....	Binney Street	6-in.
Blake & Knowles Steam Pump Wks....	Third Street	4-in.
Blanchard Machine Co.....	State Street	6-in.
Boston Book Binding Co.....	21 Mt. Auburn Street.....	6-in.
Boston Book Binding Co.....	21 Mt. Auburn Street.....	4-in.
Boston Confectionery Co.....	814 Main Street	6-in.
Boston Confectionery Co.....	29 State Street.....	6-in.
Boston Elevated Railway Co.....	Bennett Street	4-in.

Boston Elevated Railway Co.....	Baldwin Street	4-in.
Boston Elevated Railway Co.....	Massachusetts Avenue	4-in.
Boston Elevated Railway Co.....	Mt. Auburn Street	2-in.
Boston Elevated Railway Co.....	Mt. Auburn Street	4-in.
Boston Elevated Railway Co.....	Murray Street	4-in.
Boston Elevated Railway Co.....	Murray Street	6-in.
Boston Elevated Railway Co.....	Peabody Street	4-in.
Boston Elevated Railway Co.....	River Street	4-in.
Boston Elevated Railway Co.....	University Road	8-in.
Boston & Maine Railroad.....	Bridge Street	6-in.
Boston & Maine Railroad.....	East Street	6-in.
Boston & Maine Railroad—in Yard—	Four Cambridge Hydrants.	
Burke, Thos. F.....	881 Massachusetts Avenue.....	2-in.
Cambridge, City of.....	Raymond Street	2-in.
Cambridge, City of.....	Raymond Street	6-in.
Cambridge Electric Light Co.....	Western Avenue	6-in.
Cambridge Gas Light Co.....	Potter Street	6-in.
Cambridge Gas Light Co.....	Third Street	6-in.
Cambridge Gas Light Co.....	Second Street	6-in.
Cambridge Mutual Fire Insurance Co..	Mass. Avenue (metered).....	2-in.
Cambridge Rubber Co.....	Main and Windsor Streets.....	6-in.
Carr Fastener Co.....	27 Ames Street	6-in.
Carr Fastener Co.....	31 Ames Street (fire curtain).....	6-in.
Carr Fastener Co.....	43-5 Amherst Street	6-in.
Carter Ink Co.....	First Street (metered).....	4-in.
Carter Ink Co.....	Athenaeum Street	6-in.
Climax Paper Box Co.....	20-24 Cottage Park Avenue.....	4-in.
Close, George	Broadway	6-in.
Columbia Jewelry Co.....	Camp Street	6-in.
Commonwealth Custom Laundry.....	348 Franklin Street (metered).....	4-in.
Corcoran, John H.....	631-637 Mass. Avenue.....	6-in.
Corcoran, Joseph F.....	62 Albany Street	6-in.
Davenport, A. H.....	Cambridge Street	6-in.
Davenport, A. H.....	Otis Street	6-in.
Dodge Motor Vehicle Co.....	29 Landsdowne Street.....	6-in.
Dover Stamping & Manufacturing Co.	Pleasant Street	6-in.
Dow Co., John C.....	220 Portland Street (metered).....	2-in.
E. & R. Laundry Co.....	Mass. Avenue	6-in.
Elliott Addressing Machine Co.....	147-153 Albany Street.....	6-in.
Eustis Manufacturing Co., J. P.....	12-16 Ames Street.....	6-in.
Flash Chemical Co.....	Second Street	6-in.
Furbish, Fred B.....	41 Church Street.....	4-in.
Ginn & Co.....	First Street	6-in.
Ginn & Co.....	Athenaeum Street	Two 6-in.
Ginn & Co.....	Munroe Street	6-in.
Goepper Brothers	Ninth Street (metered).....	1½-in.
Govern, Anthony	881 Mass. Ave. (metered).....	2-in.
Graham & Company, James J.....	Otis Street	6-in.
Gray & Sons, Peter.....	Third Street	6-in.
Greer, J. W.....	125 Sidney Street	6-in.
Harvard University	"Austin" Hall	6-in.
Harvard University	Harvard Union	4-in.
Harvard University	Jefferson Physical Laboratory.....	6-in.
Harvard University	Langdell Hall	4-in.
Harvard University	Memorial Hall (metered).....	Two 4-in.
Harvard University	Kirkland Street (Delta Building).....	6-in.
Harvard University	Observatory	6-in.
Harvard University	Oxford Street (Drill Hall).....	6-in.

Harvard University	Semitic Museum	4-in.
Hasty Pudding Club.....	Holyoke Street	4-in.
Hews Co., A. H.....	Richdale Avenue	Two 4-in.
Holmes Estate	Central Square	6-in.
Holmes Estate	Mass. Avenue	6-in.
Holy Ghost Hospital for Incurables...	Cambridge Street	3-in.
Houghton, Mifflin Co.....	River Street	6-in.
Howe, Estate of Otis.....	748 Main Street.....	6-in.
Hyde, Abe R.....	432 Columbia Street	6-in.
Irving & Casson.....	108 Cambridge Street.....	6-in.
Irving & Casson.....	27 Otis Street.....	6-in.
Irving & Casson.....	Otis Street	Two 6-in.
Irving & Casson.....	Thorndike Street	Two 6-in.
Irving & Casson.....	Thorndike Street (metered).....	2-in.
Ivers & Pond Piano Co.....	Albany Street	4-in.
Ivers & Pond Piano Co.....	Main Street	6-in.
Jacobs, David	37 Osborn Street	6-in.
Johnson Marble Co.....	60 First Street	6-in.
Kingston Knitting Co.....	Carleton and Deacon Streets.....	6-in.
Ladd & Barker.....	11 Windsor Street.....	6-in.
Lamb & Ritchie.....	Albany Street	6-in.
Lever Brothers, Ltd., Boston Works,	Harvard Street	8-in.
Lever Brothers, Ltd., Boston Works,	Harvard Street	6-in.
Lever Brothers, Ltd., Boston Works,	Broadway	6-in.
Lever Brothers, Ltd., Boston Works,	Broadway	8-in.
Lever Brothers, Ltd., Boston Works,	Portland Street	6-in.
Library Bureau	Albany Street	6-in.
Little, Inc., A. D.....	Memorial Drive	6-in.
Little, Brown & Co.....	Putnam Avenue	6-in.
Little, Brown & Co.....	Blackstone Street	6-in.
Lovell & Hall.....	Whittemore Avenue	6-in.
Luke, Estate of E. H.....	Main Street	2-in.
Main Street Trust.....	Amherst Street	6-in.
Main Street Trust.....	Amherst Street	6-in.
Manhattan Market Co.....	Mass. Avenue	6-in.
Manufacturers' Bank Bldg. Trust.....	Main Street	6-in.
Masonic Temple	1594 Mass. Avenue.....	4-in.
Mason & Hamlin Co.....	Broadway	Two 6-in.
McLean, Isaac	Mt. Auburn Street	4-in.
McLean, Isaac	"Brentford Hall"	4-in.
Metropolitan Storage Warehouse Co..	Mass. Avenue	6-in.
Middlesex Co., House of Correction,	Second and Spring Streets.....	6-in.
Monk's Laundry	Norfolk Street	6-in.
Morse, Estate of A. P.....	585 Mass. Avenue.....	6-in.
National Company	120 Brookline Street	4-in.
National Biscuit Company.....	Franklin Street	4-in.
National Biscuit Company.....	Franklin Street	6-in.
National Biscuit Company.....	Green Street	8-in.
National Casket Company.....	122 First Street	6-in.
National Casket Company.....	Bent Street	6-in.
Nichols, Annie W. H.....	Ames Street	6-in.
North Packing & Provision Co.....	Windsor Street	6-in.
Olympia Theatre Co., Inc.....	Mass Avenue	6-in.
Page Box Co., George G.....	Hampshire Street	Two 6-in.
Payne & Co., F. S.....	75 Richdale Avenue	6-in.
Payne & Co., F. S.....	Richdale Avenue	6-in.
Peabody, Jr., et al., Francis.....	Claverly Hall	4-in.
Petterson, Oscar G.....	183 Main Street.....	4-in.

Pierce, Trustees of the Estate of Thomas, Broadway	6-in.
Pi Eta Club	Winthrop Square .....2-in.
Poole Piano Co.....	Sidney Square .....8-in.
Porter, Henry S.....	Kinnaird Street (metered).....4-in.
Porter, Henry S.....	Kinnaird Street .....6-in.
Prest-o-Lite Co.	Concord Avenue .....6-in.
Prussian, Samuel W.....	864 Main Street.....6-in.
Reardon & Sons Corporation, John.....	Waverly Street (metered).....4-in.
Revere Sugar Refinery.....	Water Street .....6-in.
Revere Sugar Refinery.....	Ninth Street .....6-in.
Reversible Collar Co.....	Putnam Avenue .....6-in.
Rice & Hutchins, Inc.....	Landsdowne Street .....6-in.
Riverside Boiler Works.....	Harvard Street .....4-in.
Riverside Boiler Works.....	Main Street .....6-in.
Ross & Co., William F.....	201 Bridge Street .....6-in.
Russell, Estate of Joseph G.....	224 Albany Street .....6-in.
Russell, Lucy J.....	29 Elm Street (metered).....1½-in.
Sacred Heart Parish.....	Seventh Street .....4-in.
Sawyer & Son, Howard M.....	Thorndike Street .....4-in.
Sawyer & Son, Howard M.....	Spring Street .....6-in.
Sawyer & Son, Howard M.....	Second Street .....6-in.
Scully, Francis P.....	First Street .....6-in.
Seelye, Francis P.....	First Street .....4-in.
Shapiro, Jacob	Memorial Drive .....6-in.
Sherburne, Estate of Reuben.....	Third Street .....6-in.
Simplex Wire & Cable Company.....	Auburn Street .....8-in.
Simplex Wire & Cable Company.....	Franklin Street .....6-in.
Simplex Wire & Cable Company.....	Pilgrim Street .....4-in.
Simplex Wire & Cable Company.....	Sidney Street .....6-in.
Southwick, Annie E.....	684 Mass. Avenue.....6-in.
Speare's Sons & Co., Alden.....	Binney Street .....4-in.
Squire Co., J. P.....	Gore Street .....8-in.
Standard Diary Co.....	26 Blackstone Street .....6-in.
Standard Oil Co.....	Potter Street .....6-in.
Standard Plate Glass Co.....	270 Albany Street .....4-in.
Standard Turning Works.....	Main Street .....4-in.
Suffolk Engraving & Electrotyping Co. Main and Carleton Streets.....	6-in.
Swan, Daniel A.....	61 Broadway (metered).....2-in.
Thairwell Co., William C.....	15 Tudor Street .....4-in.
Thayer & Co., Henry.....	Sidney and Erie Streets.....6-in.
Thompson Box Co.....	62 Hampshire Street .....6-in.
Thompson Box Co.....	69 Hampshire Street .....4-in.
Thorndike School	Spring Street .....4-in.
Tower & Son, Sylvester.....	Broadway .....4-in.
Union Real Estate Trust.....	463 Main Street .....4-in.
University Associates	Bow Street, Garage .....6-in.
University Associates	Linden Street .....4-in.
University Associates	Mass. Avenue .....6-in.
University Associates	Albany Street .....4-in.
Ward, Corby Co.....	Potter Street .....6-in.
Warren Brothers & Co.....	Amherst Street .....6-in.
Youngman, William S.....	Mass. Avenue .....4-in.

SUPPLIES RENEWED, ETC.

	8 Inch	6 Inch	4 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of cast iron pipe.....	10	108	1						119
Length, in feet, of galvanized pipe				99	47	105	700	431	1,382
Length, in feet, of lead lined pipe.....					55	316	1,491	3,529	5,391
Total length, in feet, of pipe.....	10	108	1	99	102	421	2,191	3,960	6,892
Supplies renewed with brass pipe							1	2	3
Supplies renewed with cast iron pipe		1							1
Supplies renewed with galvanized pipe				1	2	4	23	14	44
Supplies renewed with lead lined pipe.....				1	3	11	40	169	224
Total number of supplies renewed.....		1		2	5	15	64	185	272
Number of corporation cocks					3	11	30	25	69
Number of sidewalk cocks						5	36	13	54
Number of service boxes									28
Number of drip valves				1	1	10	43	57	112
Number of gates		11							11
Number of gate boxes									20
Number of concrete boxes									7

Three supplies of brass pipe laid by owners.

NEW SUPPLIES

	6 Inch	4 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	Total
Length, in feet, of cast iron pipe.....	437	313						750
Length, in feet, of cement lined pipe.....						138		138
Length, in feet, of galvanized pipe	5	46	71	368	12	286	61	849
Length, in feet, lead lined pipe.....		206		15	67	1,240	2,482	4,010
Total length, in feet, of pipe.....	442	565	71	383	79	1,664	2,543	5,747
Number of supplies, cast iron	8	7				4		15
Number of supplies, cement lined						10		4
Number of supplies, galvanized		4	4	8	1	28	3	30
Number of supplies, lead lined			6	1	2		67	104
Total number of supplies.....	8	11	10	9	3	42	70	153
Number of corporation cocks								
Number of sidewalk cocks			8	7	2	37	75	129
Number of drip valves		4	2	2	3	35	71	113
Number of service boxes			10	7	2	37	72	132
Number of gates	6	10						108
Number of gate boxes			1					17
								29

Supplies Laid During Past Twenty-Three Years

YEAR	New Supplies	SUPPLIES RENEWED			Total Supplies	Supplies furnished with sidewalk service boxes Renewals
		Application and Leakage	Attending Main Pipe Renewal	Total Supplies Renewed		
1902.....	161	110	167	277	438	51
1903.....	123	174	163	337	460	42
1904.....	111	190	87	277	388	39
1905.....	130	176	117	293	423	177
1906.....	129	230	15	245	374	113
1907.....	135	197	18	215	350	19
*1908.....	110	267	24	291	401	116
†1909.....	29	28	....	28	57	12
‡1910.....	156	332	56	388	544	144
‡1911.....	184	352	79	431	615	131
‡1912.....	229	403	37	440	669	202
‡1913.....	289	485	56	541	830	55
‡1914.....	201	663	29	692	893	81
‡1915.....	154	437	149	586	740	83
‡1916.....	175	615	122	737	912	24
‡1917.....	178	699	95	794	972	67
‡1918.....	126	582	....	582	708	30
‡1919.....	58	637	....	637	695	61
‡1920.....	102	692	....	692	794	72
‡1921.....	87	521	....	521	608	57
‡1922.....	84	575	....	575	659	54
‡1923.....	152	227	....	227	379	32
‡1924.....	153	272	....	272	425	28

*For year ending November 30, 1908.

†For four months ending March 31, 1909.

‡For year ending March 31.

Comparative Trenching for the Past Nineteen Years

	MAIN PIPE				SUPPLIES		TOTAL	
	Extension	Re-newals	Subway Changes		New	Re-newals	Feet	Miles
			New	Re-newals				
1906.....	7,443	1,357	....	....	4,835	8,716	22,351	4.23
1907.....	4,377	1,964	....	....	5,433	6,461	18,235	3.45
1908.....	2,877	918	....	....	5,730	8,361	17,886	3.38
1909.....	3,068½	918	....	....	6,674½	9,312½	19,973½	3.80
1910.....	5,361½	2,952	777	6,071	6,090	11,548	32,799½	6.21
1911.....	4,092	519	2,616	4,060	6,541½	13,032	30,860½	5.84
1912.....	5,813	2,424	2,033	3,995	9,476	13,403	37,144	7.03
1913.....	16,459	6,284	50	355	11,988½	16,325	51,461½	9.74
1914.....	11,000	4,154	....	....	8,175½	19,882½	43,212	8.18
1915.....	7,273½	6,290½	....	....	6,894½	17,804½	38,263	7.24
1916.....	5,368	5,360	....	....	6,109	18,293	35,130	6.65
1917.....	11,553	3,417	....	....	6,733	20,887	42,290	8.01
1918.....	3,087	2,907	....	....	4,732	17,385	28,111	5.32
1919.....	2,694	1,779	....	....	1,891	19,829	26,193	4.96
1920.....	3,336	1,387	....	....	3,229	19,637	27,589	5.22
1921.....	6,191	2,023	....	....	3,703	14,597	26,514	5.02
1922.....	2,055	4,592	....	....	3,416	18,392	28,455	5.35
1923.....	4,013	1,040	....	....	5,227	7,924	18,204	3.44
1924.....	3,654	1,895	....	....	5,747	6,892	18,188	3.44

Fiscal year ends March 31.

WATER BOARD

METERS IN USE
Domestic, Industrial, Etc., Etc.

	6 Inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Arctic	1	1
Crest	2	.....	3	2	.....	.....	.....	.....	7
Crown	1	.....	2	.....	.....	1	1	4	9
Empire ...	2	3	.....	.....	.....	.....	.....	.....	.....	5
Gem	9	.....	.....	.....	.....	.....	.....	.....	9
Hersey ...	2	2	12	45	21	5	113	271	760	1,231
Keystone	3	2	.....	.....	2	35	130	369	541
King	6	6	.....	8	13	16	49
Lambert	1	.....	.....	5	23	137	166
Nash	5	4	9
Thomson..	1	.....	.....	.....	3	.....	4
Torrent	4	.....	.....	.....	.....	.....	4
Trident	1	28	22	4	118	243	503	919
Un. Rotary	1	3	1	2	.....	1	7	2	17
Watch Dog	2	34	36
Worthing'n	14	37	118	98	115	260	850	2,786	4,278
	4	35	55	209	151	126	541	1,548	4,616	7,285

School Houses, Public Buildings, Etc., Etc.

	6 inch	4 Inch	3 Inch	2 Inch	1½ Inch	1¼ Inch	1 Inch	¾ Inch	⅝ Inch	Total
Crown ...	.....	.....	.....	3	.....	.....	1	1	1	6
Hersey ...	.....	.....	.....	1	1	.....	6	6	1	15
Keystone..	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Torrent ...	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Trident ...	.....	.....	.....	.....	.....	.....	7	1	3	11
Un. Rotary	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Worthing'n	1	1	2	6	12	3	7	3	3	38
	1	1	2	13	13	3	22	11	8	74

On Fire Supplies

	8 Inch	6 Inch	4 Inch	3 Inch	Total
Hersey "Detectors"	3	40	9	5	57
Neptune "Protectors"	1	5	.....	.....	6
	4	45	9	5	63

Total number of meters added during the year, 205.
Total number of meters in use at date, 7,422.
Percentage of service (in use) metered, 48.

FIRE SUPPLY METERS

There has been one fire supply meter set during the year on a fire supply. One 6-inch meter at the Purity Distilling Co's plant has been removed.

There are now sixty-three (63) of these meters in use.

They are located as follows:

Allen & Endicott Building Company, Main St.....	6-inch on new supply
Allen & Endicott Building Company, Osborne St.....	6-inch on new supply
American Net & Twine Company, Second St.....	6-inch on old supply
American Net & Twine Company, Third St.....	6-inch on old supply
Atwood & McManus, 64 Aberdeen Ave.....	6-inch on new supply
Baker, Brownrigg K., Osborne St. (premises).....	6-inch on new supply
Barbour Stockwell Company, Broadway (premises).....	6-inch on new supply
Blacker & Shepard Company, 80 State St. (premises)....	4-inch on new supply
Blake & Knowles Steam Pump Works, Binney and Fifth Sts. (premises)	6-inch on new supply
Boston Elevated Ry. Co., Mass. Ave.....	6-inch on new supply
Boston Elevated Ry. Co., Murray St.....	6-inch on new supply
Boston Woven Hose & Rubber Co., Hampshire St.....	6-inch on old supply
Boston Woven Hose & Rubber Co., Portland St.....	6-inch on old supply
Brigham Company, C., Albany St.....	6-inch on new supply
Briggs, C. A., 418 Main St.....	6-inch on new supply
Cambridge Paper Box Company, Broadway.....	6-inch on old supply
Carr Fastener Company, Ames St.....	6-inch on new supply
Charlsam Real Estate Company, 100 Main Street (premises)	6-inch on new supply
Davis, F. H., 175 Richdale Ave.....	6-inch on new supply
Dyar Supply Company, Broadway.....	4-inch on new supply
Filene's Sons Company, W., Memorial Drive.....	6-inch on new supply
Ford Motor Company, Brookline St. (premises).....	6-inch on new supply
Gray & Davis, Inc., Amesbury St. (premises).....	8-inch on new supply
Hammett & Company, J. L., Main and Hayward Sts. (premises)	6-inch on new supply
Harvard University, Divinity Ave. (premises).....	6-inch on new supply
Harvard University, Oxford St. (premises).....	6-inch on new supply
Harvard University, Widener Library (premises).....	3-inch on new supply
Hathaway & Sons, C. F., 15 Richdale Ave.....	4-inch on new supply
Hathaway & Sons, C. F., 15 Richdale Ave.....	4-inch on old supply
Hingham Knit Goods Company, Banks St. (premises)....	4-inch on new supply
Houghton, H. O. (Riverside Press), 20 Blackstone St....	6-inch on old supply
Howe Estate, 748 Main St.....	4-inch on new supply
Kemp & Sons, Lysander, Broadway (premises).....	6-inch on new supply
Ladd & Barker, 31 Ames St.....	6-inch on old supply
Ladd & Barker, Amherst St. (premises).....	6-inch on new supply
Lankofsky, Baila, 329 Elm St.....	4-inch on new supply
Lonergan, Adeline J., Massachusetts Ave.....	3-inch on new supply
Mass. Institute of Technology, Ames & Amherst Sts....	6-inch on new supply
Mass. Institute of Technology, 75 Massachusetts Ave..	8-inch on new supply
Mass. Institute of Technology, Vassar St.	8-inch on new supply
McGoldrick, H. E., 339 Franklin St.....	3-inch on new supply
Morey & Company, Commercial Ave. (premises).....	6-inch on new supply
Murray & Emery, Wadsworth St.....	6-inch on new supply
National Casket Company, Bent and Third Sts.....	6-inch on new supply

New England Tel. & Tel. Co., 51 Inman St.....	3-inch on new supply
Page & Shaw, 18-20 Ames St. (premises).....	6-inch on old supply
Penn Metal Company, 112-114 Sidney St. (premises)...	6-inch on new supply
Penn Metal Company, Concord Ave.	6-inch on new supply
Promboin & Son, L., 449 Windsor St. (premises).....	6-inch on new supply
Reardon & Sons' Corporation, John, Waverly St.....	8-inch on new supply
Revere Sugar Refinery, Ninth St.....	6-inch on new supply
Riverside Boiler Works, 493 Main St. (premises).....	6-inch on new supply
Russell & Company, Norfolk St.....	6-inch on new supply
Shapiro, J., 620 Memorial Drive.....	6-inch on new supply
Squirrel Brand Nut Company, 10-12 Boardman St.....	4-inch on new supply
Standard Oil Company, Sixth St.	4-inch on old supply
Standard Oil Company, Fifth & Potter Sts. (premises)..	3-inch on new supply
Sterling Knit Goods Company, Stiles St.....	6-inch on old supply
Sugarman Brothers, 541 Windsor St.....	6-inch on new supply
University Press, Nutting Place	6-inch on old supply
University Press, University Road	6-inch on new supply
Ward Baking Company, Albany St.....	6-inch on old supply
Wheelock Lovejoy Company, Sidney St.....	6-inch on new supply

FOUNTAINS

There are eighteen (18) fountains in use in the city.

Nine (9) ice water drinking fountains as tabled, seven (7) small drinking fountains as follows:

Broadway at Norfolk Street ("Jones" bubble)
 Fresh Pond Driveway ("Jenks" bubble)
 McNamee Square ("Jones" bubble)
 Memorial Drive, east side, opposite Mass. Inst. of Technology (Bubble)
 Mount Auburn St. in Parkway ("Jones" bubble)
 Tech. St. ("Jenks" bubble)
 Western Avenue ("Mill Pond Playground"), ("Jenks" bubble)
 and two (2) fountains equipped with faucets in—
 Kendall Square
 Mount Auburn Street opposite Coolidge Avenue ("Jenks")

There have been several changes in our fountains that we record as follows:

Brattle Square (Gould), (removed)
 Craigie Square (shut off)
 Kelley Square (removed)
 Mass. Avenue at Porter Square (shut off)
 Mass. Avenue at Tannery Street (shut off)
 Mass. Avenue at Washburn Avenue (removed)
 Norton Square (shut off)
 Putnam Square (removed)
 Wyeth Square (removed)

In Broadway, corner of Norfolk Street, a new fountain replaces the original which was broken by an automobile.

ICE WATER DRINKING FOUNTAINS

The Cost of Furnishing Fountains with Ice During the Summer Months for
the Past Twenty Years

Year	LOCATION									COST	
	Cambridge Field	Cambridge Street at Third Street	Central Square	Harvard Square	Kendall Square	Mass. Ave. at Blake St.	Mass. Ave. at Cameron St.	Putnam Square	Rindge Field	Total Cost per Year	Average Cost per Day per Fountain
1904	.....	\$145.50	\$112.50	\$105.60	.....	\$96.75	.....	.....	.....	\$460.35	\$1.20
1905	.....	125.55	129.90	103.43	.....	155.30	.....	.....	.....	514.18	.94
1906	.....	180.95	175.35	166.69	.....	157.25	\$115.40	.....	.....	795.64	1.57
1907	\$102.37	110.50	127.13	110.50	.....	102.74	102.25	.....	.....	655.49	1.09
1908	89.49	127.00	134.38	127.87	.....	111.50	115.75	.....	.....	705.99	1.04
1909	121.05	185.68	124.50	122.70	.....	141.60	127.95	.....	.....	823.48	1.15
1910	134.10	149.70	.....	134.55	.....	140.25	154.05	.....	.....	712.65	1.24
1911	123.60	167.65	.....	127.20	.....	146.70	169.05	.....	.....	734.20	1.34
1912	120.30	134.85	108.15	120.75	.....	139.95	165.00	.....	\$129.75	918.75	1.25
1913	135.82	174.19	175.22	138.02	.....	119.22	116.33	.....	112.01	970.81	.97
1914	113.77	149.57	152.88	113.78	.....	64.82	74.45	.....	78.41	747.68	.78
1915	89.67	120.41	109.80	83.49	.....	77.09	84.44	\$65.85	89.08	719.83	.74
1916	63.21	118.87	116.43	87.31	.....	49.24	62.62	63.49	62.47	623.64	.79
1917	62.85	136.49	133.56	101.10	.....	83.47	82.24	83.47	83.47	766.65	1.37
1918	110.45	216.52	183.35	152.29	110.45	110.45	99.88	122.10	110.45	1,216.04	1.57
1919	98.00	207.51	156.40	130.34	97.21	98.00	98.00	102.71	98.00	1,086.17	1.68
1920	97.22	192.47	155.23	125.44	97.21	97.21	97.21	103.49	97.21	1,062.69	1.82
1921	124.66	378.82	202.27	168.56	125.44	124.66	125.44	133.27	125.05	1,508.17	1.58
1922	113.68	162.73	183.46	152.88	113.68	113.68	107.40	123.87	113.68	1,185.06	1.71
1923	105.06	237.55	169.34	141.12	105.06	105.06	105.06	112.90	105.06	1,186.21	1.85

STONY BROOK OVERFLOW

	Gallons	Days	Rainfall
1923			
April	454,500,000	15	5.07
May	624,700,000	26	1.03
June .....	.....	....	2.63
July .....	.....	....	3.54
August .....	.....	....	1.70
September .....	.....	....	.98
October .....	.....	....	4.23
November .....	.....	....	4.99
December	205,400,000	24	5.02
1924			
January	252,000,000	30	3.65
February	13,800,000	29	2.51
March	386,300,000	21	1.74
Total	1,936,700,000	....	.....
No. of days in which water wasted	.....	145	.....
Total rainfall .....	.....	....	37.09

Stony Brook Overflow, Etc., for the Past Thirty-Seven Years

	Gallons	No. of Days	Rainfall
1888.....	6,000,000,000	.....	.....
1889.....	8,000,000,000	.....	.....
1890.....	8,700,000,000	.....	.....
1891.....	8,247,800,000	.....	45.25
1892.....	3,688,900,000	.....	39.82
1893.....	4,427,400,000	.....	39.50
1894.....	2,853,000,000	.....	35.79
1895.....	5,281,900,000	224	50.52
1896.....	5,704,700,000	224	50.52
1897.....	3,999,700,000	256	43.35
1898.....	5,704,600,000	260	54.03
1899.....	6,969,500,000	175	43.96
1900.....	4,447,100,000	145	51.34
1901.....	6,141,300,000	157	46.77
1902.....	6,359,100,000	182	44.58
1903.....	6,437,500,000	222	45.97
1904.....	5,726,399,000	171	41.18
1905.....	3,148,900,000	140	38.40
1906.....	3,510,700,000	170	39.16
1907.....	2,415,900,000	147	42.32
*1908.....	3,384,300,000	184 }	48.23
†1909.....	960,800,000	50 }	
‡1910.....	2,531,500,000	137	37.83
‡1911.....	57,200,000	22	31.78
‡1912.....	1,395,200,000	69	42.63
‡1913.....	2,571,200,000	132	41.22
‡1914.....	3,022,800,000	99	42.13
‡1915.....	3,477,200,000	111	34.44
‡1916.....	2,581,900,000	136	41.90
‡1917.....	4,091,800,000	141	37.11
‡1918.....	2,386,100,000	136	38.69
‡1919.....	2,186,400,000	111	41.24
‡1920.....	5,502,900,000	173	51.33
‡1921.....	5,727,600,000	217	40.52
‡1922.....	3,351,100,000	135	44.11
‡1923.....	2,981,000,000	125	50.74
‡1924.....	1,936,700,000	145	37.09

Since 1921, the decrease in the gallons overflow was due to the raising of the elevation of the crests of the Stony and Hobbs Brooks waterways two feet which provided for an additional storage for 48,000,000 gallons of water in Stony Brook and 489,000,000 gallons in Hobbs Brook that usually wasted into Charles River.

*Previous to 1908—Fiscal year ended November 30.

†Overflow from December 1, 1908, to March 31, 1909.

‡Fiscal year ended March 31.

HOBBS BROOK RESERVOIRS—Crest 183.50					STONY BROOK RESERVOIR—Crest 83				
Lincoln Street, Basin No. 1		Winter Street, Basin No. 2							
	Highest Elevation during Month	Lowest Elevation during Month	Rainfall by Month		Highest Elevation during Month	Lowest Elevation during Month		Highest Elevation during Month	Lowest Elevation during Month
1923			1923				1923		
April 6.....	183.82	183.47	Apr. 6.....	183.82	183.47	Apr. 14.....	81.54	83.95	5.07
April 28.....	183.75	183.38	Apr. 28.....	183.75	183.38	Apr. 30.....		84.08	1.03
May 1.....	183.37	182.75	May 1.....	183.37	182.75	May 1.....	82.30		
May 31.....	182.62	181.12	May 31.....	183.37	182.75	May 31.....		82.05	2.63
June 1.....	181.10	179.78	June 1.....	182.62	181.12	June 1.....	76.34		
June 30.....	179.80	177.81	June 30.....	181.10	179.78	June 25.....	78.21	81.94	3.54
July 1.....	178.05	177.65	July 1.....	179.80	177.81	July 10.....	72.93		
July 31.....	178.35	177.07	July 31.....	177.80	177.65	July 31.....	68.86	78.08	1.70
Aug. 1.....	179.21	177.85	Aug. 1.....	178.05	177.81	Aug. 1.....			
Aug. 27.....	179.21	177.85	Aug. 27.....	177.72	177.65	Aug. 31.....	67.53	76.25	.98
Sept. 1.....	179.21	177.85	Sept. 1.....	177.72	177.65	Sept. 9.....	71.60	73.77	4.23
Sept. 30.....	179.21	177.85	Sept. 30.....	179.21	177.65	Sept. 25.....	78.12		4.99
Oct. 14.....	179.21	177.85	Oct. 14.....	179.21	177.65	Oct. 1.....			5.02
Oct. 31.....	179.21	177.85	Oct. 31.....	179.21	177.65	Oct. 15.....	83.40		
Nov. 23.....	179.21	177.85	Nov. 23.....	179.21	177.65	Oct. 24.....			
Nov. 28.....	179.21	177.85	Nov. 28.....	179.21	177.65	Nov. 24.....			
Dec. 5.....	179.21	177.85	Dec. 5.....	179.21	177.65	Nov. 30.....			
Dec. 31.....	179.21	177.85	Dec. 31.....	179.21	177.65	Dec. 1.....			
1924			1924			Dec. 9.....			
Jan. 1.....	181.00	181.03	Jan. 1.....	181.00	181.03	Dec. 2.....	83.00		3.65
Jan. 31.....	181.78	181.79	Jan. 31.....	181.00	181.03	Jan. 2.....		83.42	
Feb. 1.....	183.49		Feb. 1.....	181.78	181.79	Jan. 13.....	80.31	83.13	2.51
Feb. 29.....			Feb. 29.....	183.49		Feb. 1.....	79.94		
Mar. 1.....			Mar. 1.....			Feb. 29.....			1.74
Mar. 31.....			Mar. 31.....			Mar. 4.....			
Total	37.75	37.75	Total.....	37.75	37.75	Mar. 25.....		83.51	
						Total			37.09

Elevation of crests raised in January, 1922.

FINANCIAL STATEMENT

April 1, 1923 to March 31, 1924

Maintenance, "General Account"

		Operating Expenses
A—Personal Service:		
1. Permanent employees	\$114,804 29	
2. Temporary employees	31,377 31	\$141,363 40
3. Unassigned	2,700 00	
B—Service other than personal.....	20,034 96	20,034 96
C—Equipment	1,973 02	1,973 02
D—General plan, supplies	8,634 03	8,634 03
E—Materials	36,163 66	29,529 78
F—Special items.....	\$11,171 66	11,171 66
4. Serial loans	45,000 00	
5. Interest	60,556 25	
14. Refunds	948 46	
	<hr/>	
	117,676 37	
G—Incidental expenditures	1,195 21	1,195 21
	<hr/>	
	\$334,558 85	

With new supplies, loans, interest and refunds deducted..... \$213,902 06

Maintenance, "Pumping Account"

A—Personal Service:		
1. Permanent employees	\$20,952 88	
2. Temporary employees	3,140 22	
B—Service other than personal.....	9,788 64	
C—Equipment	88 49	
D—Supplies	39,386 70	
E—Materials	194 04	
F—Special items.....	68 00	
	<hr/>	
	\$73,618 97	\$73,618 97

Maintenance, "Reservoirs Account"

A—Personal Service:		
1. Permanent employees	\$26,525 59	
2. Temporary employees	9,521 00	
3. Unassigned	480 00	
B—Service other than personal	4,332 83	
C—Equipment	222 70	
D—Supplies	536 00	
E—Materials	207 40	41,825 52
	<hr/>	
	\$41,825 52	

Maintenance, "Filtration Account"

A—Personal Service:	
1. Permanent employees	\$13,506 68
2. Temporary employees	175 00

B—Service other than personal	7,437 35	
C—Equipment	243 03	
D—Supplies	16,298 68	
	<hr/>	
	\$37,660 74	37,660 74

Total operating expenses for the year..... \$367,007 29

Total expenses for the year:

Maintenance, General	\$334,558 85	
Maintenance, Pumping	73,618 97	
Maintenance, Reservoirs	41,825 52	
Maintenance, Filtration	37,660 74	
	<hr/>	
		487,664 08
Construction—Filtration plant		115,612 11
Detector meters		1,277 93
		<hr/>
		\$604,554 12

RESERVOIRS

The roadway at Hobbs Brook dam was washed away during the late winter storms and it has been necessary to reconstruct the whole road at this location. We have driven piles and made the foundation absolutely solid so that such a catastrophe cannot occur again.

The usual care has been taken of our basins and watershed and the lands abutting the same.

Attending the protective and preventive inspections of the Hobbs Brook and Stony Brook Reservoirs, 647,630 gallons of sewage and 38 barrels of solids have been removed from vaults and cesspools.

The locations of new vaults and cesspools have been carefully considered and located with the approval of our medical inspector.

MISCELLANEOUS

We have leased two small areas of land which form a part of the right of way over our 63-inch conduit.

The Hood Rubber Co. needed an approach to its works in Watertown from the railroad, and this was granted to them by the Water Board, the company having signed an agreement to conform to all requirements and stipulations.

We have laid only about one mile of main pipe during the year; of this amount one-third was for renewal to replace pipe that was too old or inadequate.

In Ballard Place a new 4-inch was laid to replace a 1½-inch laid in 1874.

In Hancock Place a new 4-inch was laid to replace a small pipe laid many years ago.

In Massachusetts Avenue, from Exeter Park to Roseland Street, an 8-inch was laid to replace a 6-inch laid in 1892.

In Munroe Street, from First Street to Second Street, a 6-inch was laid to replace a 6-inch which was abandoned, as the railroad tracks occupy the location on the north side of the street over the abandoned 6-inch pipe.

In Tenney Street, from Orchard Street to Elm Street, a 6-inch was laid in place of an old 3-inch which had been in use since 1869.

At our pipe yards the houses, shops and buildings have been kept with the usual care.

The survey of locations of gates has been finished and there only remains the binding together of the sections which have been blue printed.

We expect to place these books in suitable locations around the city, available for our men to consult in case of emergency when a gate location cannot be readily found.

Michael Cooney, Thomas Leary, and Daniel F. Twomey, three of our oldest employees, have died during this year; all had been pensioned in recognition of long and faithful duty.

Vito Sacco and John Hayes, also old employees, have been placed on our pension list.

Respectfully submitted,

TIMOTHY W. GOOD,
General Superintendent.

REPORT OF THE TRUSTEES OF THE DOWSE
INSTITUTE FOR THE YEAR ENDING
APRIL 1, 1924.

The Honorable City Council of the City of Cambridge,

GENTLEMEN: The Dowse Institute during the year ending April 1, 1924, continued the policy inaugurated the preceding year of presenting a course of lectures of high quality, open to all citizens of Cambridge.

During the year under review, Doctor T. R. Glover, of Cambridge, England, was employed to deliver a course of five lectures on Saint Paul, in the New Lecture Hall, Kirkland Street.

The lectures were fairly well attended and were well received.

Respectfully submitted,

JOSEPH H. BEALE,
Clerk of the Trustees.

BOARD OF PUBLIC WELFARE

April 15, 1924.

To His Honor the Mayor and the Honorable City Council, City of Cambridge, Massachusetts.

Gentlemen—The Board of Public Welfare herewith submit their annual report for the year ending March 31, 1924.

At the annual meeting of the Board held on May 10, 1923, Rev. John R. McCool was unanimously re-elected chairman of the Board for the ensuing year.

The community at large and the Board in particular suffered a great loss by the removal of Father McCool from the city, occasioned by his appointment to a pastorate in Medfield. He was a member of the Board for eighteen years and served as chairman for twelve years. The following resolutions were adopted by the Board and presented to Father McCool at a complimentary dinner tendered by the Board and the employees of the department:

“Resolved—That the Board of Public Welfare of the City of Cambridge desires to put on record its respect and affection for the Reverend John R. McCool, who for eighteen years has been a member of this Board, and its chairman for twelve years. His fairness, love of justice and desire to do his whole duty have been a lamp unto our feet, and he has given us new ideals to strive for.

We have followed with admiration his unsparing labors in behalf, not only of the residents of the City Home, who have had his especial care, but of all who have come before this Board for aid. His duty was not finished with his vote in meetings, but all who came to him were sure of his sympathy and encouragement. In behalf of all these, we express their gratitude. It is not alone as a public official that we love him. As a

man he has won our friendship as we hope we have won his. Our feeling for him is not limited to friendship, but is one of affection and esteem.

We wish him every happiness and success in his new field of labor, and regret that we are to miss him at our meetings."

Father McCool's resignation became effective July 10, 1923. On August 13, 1923, George P. O'Brien was elected chairman of the Board.

For a long time the Board has recognized the necessity of a new City Home but hesitated to recommend the erection of a new building because of the cost. Learning that the Boston Elevated Railway Company might be willing to purchase the City Home property the Board, after some study of the situation, sent the following report and recommendations to Mayor Quinn and the City Council:

"To the Honorable Mayor and City Council:

The Overseers of the Public Welfare respectively recommend that the city erect a new and modern City Home at such place on the city lands as may be selected therefor.

The present building was erected some seventy-five years ago when conditions were entirely different from what they are today. Then there were many able-bodied men and women in the Home, and the farm of some thirty-three acres was successfully worked by men. Thirty years ago the annual product of the farm was valued at \$6,500. Today the limited area under cultivation is operated at a loss, as farm labor must be hired from outside. Today the residents of the Home are largely the aged and the infirm. Almost half of them are in receipt of some hospital treatment, and the number of helpless incurables is increasing. There is a growing class who are able to pay their board but whose relatives and friends cannot care for them outside.

The present building is not suitable for this new purpose. It is expensive to heat and operate and presents a serious fire menace. The women, many of them aged and helpless, are housed in the older part of the building, and should a serious fire occur, it would, in our opinion, necessarily result in a loss of lives.

The floors of the older part of the building are difficult to keep clean and sanitary.

The present farm, so called, contains something over one million square feet, half of which is in Cambridge and the rest in Somerville. Practically all of it is smooth, level land adapted for building. It is no longer useful to the city and entails an outgo rather than a revenue.

The Boston Elevated Railway Company has intimated a willingness to purchase so much of the farm as lies in Cambridge for terminal and storage yards and if it purchases the land it will erect buildings thereon at a cost of two hundred or two hundred and fifty thousand dollars. Undoubtedly as business develops it will erect more buildings. We hear that the company planned to expend a million dollars for a development in Arlington, which, owing to opposition in that town, they are willing to transfer to Cambridge.

No plans have been prepared, or even sketched, for a new building, as such a task would require the services of an architect especially experienced in institution work, but the State House authorities estimate the cost of such a building at \$1,000 per patient. Our present population keeps pretty closely to 125. Should we build for 150 patients, the cost would thus approximate \$150,000. Adding to this the cost of quarters for superintendent, nurses and employees the cost may run up to \$200,000.

It is easy to see that after the amount received from the sale of the land has been applied to the building, the interest and sinking fund charges on the balance to be borrowed can easily be met from the taxes to be paid on the property as developed by the railroad. In addition, there is a growing demand for residences on the Somerville half of the land while a new and more sanitary structure for handling garbage could probably be erected at the quarry end of the lot, and the cost of that be covered by sales of land.

We would recommend therefore

(1) That the city enter into negotiations with the Elevated Railway for the sale of such part of the land as is needed by it, either through the instrumentality of this board or otherwise.

(2) That the city, through this board or otherwise, employ an architect experienced in institution construction to prepare suitable plans and specifications.

(3) That inasmuch as the revenue from taxes on the improved land sold will amply provide for the carrying charges on the necessary loan, the legislature be applied to for permission to borrow the money outside the debt limit.

As to the location of the new Home, we would again emphasize that we no longer maintain an Almshouse in the sense in which that term was used fifty years ago. We now have a combination of an old people's home and a hospital, largely for incurables.

We, therefore, feel that the city should provide as well for its almoners as private charity does in the Home for the Aged, and that the new buildings should be treated as an adjunct of the Municipal Hospital for chronic and convalescent cases. To that end we hope that the new building will be placed in cheerful and pleasant surroundings and we especially recommend the high ground owned by the city overlooking Fresh Pond."

The report is now before the City Council Committee on Public Property which already has had a conference with the Public Trustees of the Boston Elevated Railway Company.

The cost of maintaining the department is as follows:

	Expenditures	Receipts	Net Cost
Outside Aid.....	\$209,208 61	\$67,194 42	\$142,014 19
City Home	40,145 42	6,769 89	33,375 53
	<hr/>	<hr/>	<hr/>
	\$249,354 03	\$73,964 31	\$175,389 72

The expenses in detail may be found on the pages following.

Respectfully submitted,

GEORGE P. O'BRIEN,
BERNARD B. WELCH,
EDMUND A. WHITMAN,
CHARLES J. WILLIAMS,
LEOPOLD BARTEL,
GEORGE D. COLGAN,

Board of Public Welfare,

PUBLIC WELFARE

519

EXPENDITURES

Outside Aid

Personal Service

Salaries, Permanent Employees	\$13,266 00	
Salaries, Temporary Employees	95 00	
		<u>\$13,361 00</u>

Service Other Than Personal

Printing and binding	\$20 58	
Postage	40 00	
Transportation of persons	967 02	
Light and Power	48 58	
Rent	117 60	
Communication	148 82	
Motor vehicle repairs and care	98 18	
Care of persons.....	1,069 41	
Fees	10 00	
Burial	242 00	
Miscellaneous	44 57	
		<u>2,806 76</u>

Equipment

Wearing apparel	\$481 04	
		<u>481 04</u>

Supplies

Office	\$296 71	
Food and ice	6,151 31	
Fuel	727 65	
Medical and Surgical	893 36	
Laundry, Cleaning	10 98	
Motor Vehicle	147 57	
Miscellaneous	18 50	
		<u>8,246 08</u>

Special Items

Care of dependents	\$88,645 81	
Mothers' aid	95,667 92	
		<u>184,313 73</u>

Total expenditures, outside aid		<u>\$209,208 61</u>
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City Home

Personal Service

Salaries and wages, permanent employees	\$18,041 87	
Salaries and Wages, temporary employees	331 08	
		<u>\$18,372 95</u>

Service Other Than Personal

Postage	\$15 00	
Advertising	6 15	
Transportation of persons	503 90	
Light and power	573 58	
Communications	85 50	
Wagon repairs	13 56	
Religious	46 50	

Burial	167 00	
Miscellaneous	532 01	
Horseshoeing	50 00	
	<hr/>	1,993 20
Equipment		
Furniture and fittings	\$293 31	
Tools and instruments	4 34	
Wearing apparel	745 42	
	<hr/>	1,043 07
Supplies		
Office	\$19 03	
Food and ice	12,255 53	
Fuel	2,829 00	
Forage and animal	384 46	
Medical and Surgical	763 93	
Laundry and Cleaning	177 96	
Agriculture	152 96	
Disinfectants	110 00	
Tobacco	168 17	
Miscellaneous	883 61	
	<hr/>	17,744 65
Materials		
Building	\$267 05	267 05
Special Items		
Cash to inmates	\$724 50	
	<hr/>	724 50
Total expenditure, City Home		\$40,145 42

RECEIPTS

Outside Aid

Cities and Towns		
Temporary aid	\$9,144 86	
Mothers' aid	4,599 35	
	<hr/>	\$13,744 21
Individuals	\$117 56	
	<hr/>	\$117 56
Commonwealth of Massachusetts		
Temporary aid	\$6,498 77	
Mothers' aid	46,467 37	
Sick state poor	366 51	
	<hr/>	53,332 65
Total receipts, outside aid		\$67,194 42
City Home		
Individuals	\$4,671 67	
Other cities and towns	582 00	
Cash sales	1,516 22	6,769 89
	<hr/>	
Total departmental receipts		\$73,964 31

Cambridge, January 17, 1924.

Hon. Edward W. Quinn, President James F. Barrett and Frederick H. Burke, City Clerk, Trustees of the Sanders Temperance Fund.

Gentlemen—As City Missionary and Agent of the above-named fund, I beg leave to present the following report for the year ending March 31, 1924. I have attended the District Court almost every morning for the past year. I have talked to the unfortunates, collectively and individually, pointing out the evils of indulging in alcoholic beverages. I have visited their homes in some cases and have done everything I could to heal any difference that might exist between them and their wives and families. I have found a few cases of destitution. In those cases I have called the Overseers of the Poor and they have taken care of them. In conclusion, Gentlemen, I wish to state that I am much interested in the work and I will keep right along in the same line, trusting that my labors will result in the improvement in the poor people of our city.

Most respectfully submitted,

BERNARD J. BROGAN,
City Missionary.

8 Alden Road.

REPORT OF SEALER OF WEIGHTS AND MEASURES

Cambridge, Mass., April 10, 1924.

To the Honorable City Council of the City of Cambridge:

In compliance with the City Ordinance I respectfully submit a report for the Department of Weights and Measures for the year ending March 31, 1924.

EXPENDED

Appropriation \$9,116 00

Salaries for Sealers:

Felix C. McBride	\$2,300 00	
Emery G. Morris	1,750 00	
Hugh H. Healey	1,800 00	
Joseph O'Neil	1,750 00	
		\$7,600 00

Equipment:

The Brattle Filling Station, supplies....	278 34
Harvard Automobile Co., repairs.....	266 70
Heef. Auto, supplies	31 85
Hood Tire Sales Co., supplies	77 77
Allen & Doane Co., dies	69 43
Hobbs & Warren, supplies	27 44
Court Radiator Co.	4 41
New England Tel. & Tel. Co.....	29 11
Augustus Gillis	10 29
Ford Service Station.....	7 59
Cambridge Motor Co.	9 61
City Messenger Dept., stamps	10 00
Pill Bros., hardware.....	2 46
W. & L. E. Gurley, weights	49 41
Felix McBride, car registration.....	20 00
Cambridge Recorder Pub. Co., adv.....	7 84
Stingel Hardware Co.	1 47
Boston Elevated Railway Co., tickets...	30 00
L. A. Stingel, hardware.....	29 70
Standard Oil of N. Y., gasoline.....	2 17
George E. Masters, Washington, D. C.	63 50
J. Frank Facey, printing.....	15 44
Harvard Cooperative, supplies.....	10 78
The Misses Littlefield, copying.....	1 47
Herrick Foot aluminum seals.....	13 72

SEALER OF WEIGHTS AND MEASURES

523

Dover Stamping Co., cans.....	45 40		
Caustic-Claffin Co., books.....	27 44		
		1,143 34	
Total expenditure			\$8,743 34
Amount expended			\$372 66
Revenue:			
Fees for sealing	\$828 20		
Fees for adjusting	87 68		
		\$915 88	
Total amount expended		8,743 34	
Total amount collected		915 88	
Net expense of department			\$7,827 46

TESTS MADE AT OFFICE FOR YEAR ENDING MARCH 31, 1924

Scales sealed	544		
Scales adjusted	85		
Scales condemned	32		
		632	
Weights sealed	252		
Weights adjusted	20		
Weights condemned	1		
		273	
Dry measures sealed	20		
Dry measures adjusted	0		
Dry measures condemned	6		
Liquid measures sealed	1,378		
		1,404	
Ice cream measures sealed	987		
Ice cream measures adjusted	26		
Ice cream measures condemned	18		
Ice cream measures tested	2,876		
		3,907	
Milk jars tested		1,286	
Total number of tests made at office.....			7,512

TESTS MADE OUTSIDE OF OFFICE FOR YEAR ENDING MARCH 31,
1923

Scales sealed	2,848		
Scales adjusted	428		
Scales condemned	96		
		3,372	
Weights sealed	5,164		
Weights adjusted	678		
Weights condemned	59		
		5,901	
Dry measures sealed	54		
Liquid measures sealed.....	1,428		
Liquid measures adjusted	42		
Liquid measures condemned.....	49		
		1,573	
Oil pumps sealed	148		
Oil pumps adjusted	29		
Oil pumps condemned	7		
		184	

Yard measures sealed	166	
Yard measures condemned	28	
		194
Platform scales sealed, capacity 5,000 lbs.	127	
Platform scales sealed, less than 5,000 lbs.	728	
Slot weighting scales sealed	148	
25 lbs. bags of coal tested	6,482	
Tests made in stores	9,873	
Tests made on street	2,876	
Berry boxes tested	3,858	
		24,092
Total number of tests outside of office.....		35,316
Total number of tests at office		7,512
Total number of tests made		42,828

STANDARDS FURNISHED BY THE COMMONWEALTH

1 Balance, 5 grains to 100 lbs.	
1 Set (5) Avoirdupois Weights, 50-lb., 25-lb., 10-lb., 5-lb.	
1 Set (11) Avoirdupois Weights, 4-lb. to 1/16 oz.	
1 Kilogramme in case.	
1 Steel Meter in case.	
1 Brass Yard Measure.	
1 Set (5) Iron Dry Measures, ½ bushel to 1 quart.	
1 Set (6) Iron Liquid Measures, 1 gallon to 1 gill.	
1 Roll Top Desk.	
1 Black Walnut Desk.	
5 Chairs.	
1 Table.	
1 Clothes Press.	
1 Scale Cabinet.	
2 Benches.	
1 Sink.	
5 Mats.	
1 Set Revised Laws.	
1 Set Card Records, Oak Case.	
1 Set Card Index, Oak Cass.	
1 Hectograph.	
1 Letter Press.	
1 Blotter Bath.	
Miscellaneous Books	\$200 00
1 Express Wagon	100 00
1 Light Wagon	35 00
1 Pung	23 00
2 Harnesses	70 00
1 Plush Robe	6 00
1 Stable Blanket	2 00
1 Rain Blanket	2 00
1 Woolen Blanket	8 00
1 Halter	75
1 Hitch Weight ..	50
1 Balance Scale	88 69
1 Platform Scale, ½ to 2,500 lbs.	75 00
1 Folding Platform Scale, ½ lb. to 600 lbs.	30 00
1 Balance, 1/10 milligramme to 500 grammes.....	35 00
1 Balance, 1/50 grain to ½ lb.	15 00
1 Sealer's Balance, 1 grain to 100 lbs.	150 00

2 Leather Tool Bags	9 50
1 Sealer's Balance, 1 grain to 8 lbs.	50 00
2 Sealer's Trip Scales (not used)	5 00
1 Spring Scale, 1 lb. to 125 lbs.	1 00
2 Sets (19) Avoirdupois Weights, 4 lbs. to $\frac{1}{8}$ oz.....	10 00
1 Set (9) Troy Weights, 16 oz. to $\frac{1}{8}$ oz.	3 00
1 Set (13) Metric Weights, 1 kilo to 1 gramme.....	5 00
5 Boxes Miscellaneous Weights (not standardized).....	10 00
1 Set (3) Iron Weights, 25-lb., 10-lb., 5-lb.	5 00
Carried forward	\$939 44
Amount brought forward	\$939 44
40 50-lb. Weights	100 00
1 Arch	2 00
3 Glass Graduates	1 00
1 Set (21) Grain Weights, 1,000 gr. to 1/1000 gr.....	13 50
1 Set (21) Metric Weights, 50 gram to 1/10.....	13 50
1 Set (5) Copper Dry Measures, $\frac{1}{2}$ bushel to 1 quart.....	45 00
1 Set (3) Brass Dry Measures, 1 quart to $\frac{1}{2}$ pint.....	5 00
2 Sets (14) Copper Liquid Measures, 1 gallon to 1 gill.....	30 00
1 Yard Measure	1 50
1 Iron Truck	5 00
1 5-gallon Copper Measure	15 00
1 Steel Tape	10 00
1 Pair of Inside Calipers	3 50
1 Set Brands	3 00
1 Plumbers Furnace	5 00
Miscellaneous Tools	50 00
3 Record Books	15 00
2 Ford Automobiles	1,074 19
Total	\$2,331 63

The Department has caused eleven persons to be summoned to court for violations of laws relating to short weight and measure and convictions and fines amounting to \$110 have been paid.

Respectfully submitted,

FELIX C. McBRIDE,
Sealer of Weights and Measures.

CAMBRIDGE PUBLIC LIBRARY

1925-1926

TRUSTEES

CHARLES F. J. McCUE	
(Of the School Committee).....	Term expires January, 1928
EDWARD P. COLLIER.....	Term expires January, 1928
ALBERT E. LYNCH.....	Term expires January, 1928
ROBERT W. YOUNG.....	Term expires January, 1927
EDWARD H. REDSTONE.....	Term expires January, 1927
JOHN A. BUTLER.....	Term expires January, 1926
NELLIE F. CROWLEY.....	Term expires January, 1926

CHAIRMAN

Rev. John A. Butler

SECRETARY

Nellie F. Crowley

TREASURER

Albert E. Lynch

LIBRARIAN

Thomas Harrison Cummings

CENTRAL LIBRARY

Broadway and Trowbridge Street

The central library is open daily, except holidays, from 9 A. M. to 9 P. M.; the children's room, from 9 A. M. to 6 P. M. On Sundays the central library is open to readers only, from 2 to 9 P. M.; the children's room from 2 to 6 P. M. From June 15 to September 15 the central library and children's room are closed on Sundays.

BRANCH LIBRARIES

Open Week Days Only

EAST CAMBRIDGE BRANCH, Fourth Street.

Open from 9 A. M. to 9 P. M.

NORTH CAMBRIDGE BRANCH, 2101 Massachusetts Avenue.

Open from 9 A. M. to 9 P. M.

CAMBRIDGEPORT BRANCH, 744 Massachusetts Ave., cor. Pleasant St.

Open from 9 A. M. to 9 P. M.

CAMBRIDGE FIELD BRANCH, the Shelter, Cambridge Field.

Open from 9 A. M. to 9 P. M.

MT. AUBURN BRANCH, Haggerty Schoolhouse, Cushing St.

Open Mondays and Wednesdays, 2 to 9 P. M. Saturdays, 1 to 9 P. M.

REPORT OF BOARD OF LIBRARY TRUSTEES

To the Honorable, the City Council of Cambridge:

Gentlemen:—In rendering a report, with accompanying recommendations for the year ending March 31, 1924, the Board of Library Trustees desires to express its approval of the work accomplished, under more or less adverse conditions, by the Librarian and his assistants, and to register its disapproval of the limited and decidedly obsolete branches of an exceptionally fine Central Library.

In order to retain its standing among other cities of its size and importance in the Commonwealth, Cambridge should maintain a chain of progressive, up-to-date branch stations. The present ones, established when the population was much smaller, and the service required correspondingly less, have ceased to function properly, and are entirely inadequate for existing demands, several large and growing districts of the city being entirely without facilities to supply the ever increasing demand for good clean literature. As shown by the librarian's report, the circulation of books in these branches constitutes more than half the circulation of the entire library system. With proper facilities for carrying on the work, still better results would be attained.

The board earnestly desires to call the attention of the City Council to this long existing condition, and will gladly co-operate in any movement for its betterment.

Special attention is called to the tabulated report of the fine results attained in the children's department, and the large number of certificates awarded in the reading courses planned by the State Library Commission.

Respectfully submitted,

JOHN A. BUTLER, *Chairman*,
ALBERT E. LYNCH,
EDWARD H. REDSTONE,
EDWARD P. COLLIER,
ROBERT W. YOUNG,
NELLIE F. CROWLEY, *Secretary*.

LIBRARIAN'S REPORT

To the Board of Trustees.

Gentlemen:—I present herewith the annual report of the Cambridge Public Library for the year ending March 31, 1924. In reviewing the library statistics for the year's work, the one outstanding fact is that the people of Cambridge are realizing now as never before what the public library has to give them. There is a marked increase in their attendance and interest. Not only by the number of those who daily frequent the main library and its branches, but also by the number of requests for information received by telephone and mail, we know that they are deeply concerned in the work of this institution. This means that they are thoroughly aroused to the need of better library facilities and are demanding suitable buildings in which to house the branch libraries and also more books and better service throughout the library generally. The volume of work which the library has been called upon to do has increased at an average of 15% a year for several years past while the library's financial support has only increased about 7%.

Because of the crowded conditions at the Main Library its auditorium, card catalogue and delivery room have been converted into reading rooms and filing rooms to accommodate the public. Within a short time it will be necessary for the city to decide what to do to accommodate readers and books in the Central library building and branches as the question of addition to the present buildings or provision for a new one is becoming increasingly acute.

HOME USE OF BOOKS

During the year ending March 31, 1924, the circulation records show that 382,549 books were borrowed for home use. As the grand total in 1923 was but 371,406 the gain for this year was 11,146; an increase of nearly 1,000 books monthly.

NEW BORROWERS

The total number of borrowers registered at the Central library and branches within the past four years is 38,000 all told. Five thousand one hundred and twenty-four new borrowers were added to the library registration this year.

BOOK COLLECTION

The total number of books added to the Central library this year was about 4000 by purchase and gifts and to the branches 3235, making a total of 7235 all told. It was necessary to withdraw 1529 worn books unfitted for circulation at the Central library and 1824 copies at the branches. These losses, subtracted from the total accessions, leave as a net gain over 4000 books for the library this year. The total size of the collection today is 125,133 volumes, distributed as follows:

Central Library	99,324
North Cambridge Branch	7,764
East Cambridge Branch.....	5,843
Cambridgeport Branch	6,132
Cambridge Field Branch.....	3,258
Mount Auburn Branch.....	2,812

Special efforts have always been made to keep the book collections up to date and in good condition for circulation. Even with the best of care many books, by continual use, have been worn out; and oftentimes those in greatest demand go most rapidly. Hence the need of a good book appropriation to meet the problems of replacements and to buy new books that must be added to from time to time, in order to keep the collection up to date and satisfactory to those who habitually use the library.

REFERENCE DEPARTMENT

The library serves all who seek self education. "That the library can render its most important contribution to the education of American citizens in the field of self education" was the outstanding statement by Carl H. Milam, executive secretary of the American Library Association, at a conference recently held at the University of Minnesota. The adult education movement in public libraries is being especially stressed at this time as deserving of much attention.

More and more the reference facilities of the library are being used by all sorts and conditions of borrowers. The refer-

ence division tries to supply the information wanted whether found in books or not, using all the resources of the library and even telephoning to other libraries and government departments for information on all sorts of topics.

ADULT CIRCULATION

Librarians all over the United States are being urged to regard the adult education movement as the one great work of all public libraries in the near future. More and more the reference facilities of the library will be extended to increase the use of the library to men and women who wish to continue their education out of school. Boys and girls, men and women, all persons out of school are the ones for whom such help is specifically designed. In the Cambridge Public Library, much help has been extended to the foreign born, through the distribution of books, designated as suitable for the newcomers, and in making the library a community center whose function is to encourage systematic reading of books under competent direction by furnishing the right book to the right person at the right time. No phase of the work has been more interesting or more profitable, from an educational standpoint, than the contacts which have been made with the older graduates of the schools of the city seeking to continue their self education and culture long after they have graduated. Hundreds of bright and promising young people are hungry for reading matter and a large part of their future education and training will come from that source. At present, the Cambridge Public Library is doing fine constructive work along these educational lines and improving the standard of efficiency and citizenship throughout the city.

SCHOOL WORK—WINTER OF 1923-1924

During the year the usual lessons have been given to the first and second year pupils of the High and Latin School, and to the first year pupils of the Rindge Technical School. Although these lessons are restricted to the use of the catalogue and the most important reference books, they lead to general interest in the library. On their first visit those who have not previously secured library cards have an opportunity to register and most of them become regular users of the library. Many use the

books in the Reference Room in the preparation of their lessons; they take out books on a reading list prepared by the teachers, and have a feeling of being at home in a library which otherwise many of them would never gain. Twenty-two hundred and twenty pupils came for these classes. For most of these boys and girls this will be their first introduction to what is best in the world's literature of today, and the foundation may be laid here for creating, in some of them at least, a taste for good books and a real love for home reading, that so enriches the home and school life.

JUVENILE DEPARTMENT

The fifth annual Children's Book Week was held November 11-17, 1923. During this week the public library, the school, churches and other organizations concerned with children, emphasized the importance of books in reading for boys and girls especially. Exhibits of good books suitable for children, distribution of book lists for young people, discussions on books that children really like to read and talks on authors and illustrators of children's books were some of the features of this week at the Cambridge Public Library. It is said that each year over a million children come to reading age. What books shall I give to my children is the question that every parent should ask oneself, at this time. The schools teach our children to read; the public library gives opportunity to boys and girls to form the reading habit and to develop a good taste in the choice of books. The growing appreciation of the importance of children's reading is very marked today in the public library, and the book publishers of the country are leading the world in the production of interesting and beautiful books specially made for boys and girls. These are the ones who form a growing taste by constant reading. The ability to use books for information and pleasure when they have grown older, depends on their acquiring the reading habit now when they are children.

But the most interesting thing done by this department during the past year was the certificates awarded the school children for the reading courses planned by the State Library Commission. The following report made by the children's librarian sets forth the work in detail:

HONOR CERTIFICATES

May 1923-Dec. 1, 1923

Honor certificates have been awarded to the following pupils of the Grammar Schools of Cambridge for reading and reporting on twenty books on the Massachusetts State Certificate Reading lists specially selected by the State Library Commission:

From the Central Library

Name	School	Grade
Thomas Mahoney.....	Harvard	Four
Edward Counihan.....	Harvard	Four
Anna Pyne.....	Harvard	Eight
Grace Clifford.....	Russell	Eight
Mary Coyne.....	Ricalton, N. J.....	Five
Margaret P. Dorsey.....	Harvard	Eight

From the East Branch

Frank Ameral.....	Putnam	Five
Albert George.....	Putnam	Five
John E. Silvieira.....	Putnam	Five
Doris Monahan.....	Sacred Heart	Six
Julia McCormack.....	Sacred Heart	Six
Gilbert Travers.....	Thorndike	Six
Madeline Foster.....	Sacred Heart.....	Eight
Lillian Webber.....	Sacred Heart	Six
Anna Powers.....	Sacred Heart	Five
Elizabeth Powers.....	Sacred Heart	Six
Elizabeth Ryan.....	Sacred Heart	Six
Agnes Henihan.....	Sacred Heart	Seven
Helen Connor.....	Sacred Heart	Five
Mary Canty.....	Sacred Heart	Eight
Francis Connelly.....	Sacred Heart	Six
Frances Crowley.....	Sacred Heart	Seven
Margaret Goss.....	Sacred Heart	Seven
Mary Duggan.....	Sacred Heart	Six
John Hurley.....	Sacred Heart	Six
Edna Brady.....	Sacred Heart	Five
John McCarthy.....	Sacred Heart	Six
Alice McLaughlin.....	Sacred Heart	Eight
Margaret C. Walsh.....	Sacred Heart	Eight

From the Field Branch

Mary Skapinski.....	Kelley	Five
Charles Murphy.....	Wellington	Four
Harold Keegan.....	Wellington	Six
Helen Pawlinska.....	Kelley	Six
Mary Jusivez.....	Kelley	Five
Martha Goldman.....	Wellington	Eight
Pauline Pryshmont.....	Wellington	Five
Leo Candido.....	Wellington	Four
Sarah Ackerman.....	Wellington	Eight
Concetta Di Marino.....	Kelley	Six
Alice Sakowicz.....	Wellington	Seven

From the Mount Auburn Branch

Katherine McCarthy.....	Russell	Four
Katherine Downing.....	Russell	Five
William Joyce.....	Russell	Five
Gertrude Whouley.....	Russell	Five
Elsie Mary Downing.....	Russell	Six
Margaret Gallegher.....	Russell	Six
Truman Hayes.....	Russell	Seven
Joseph Peter Kenney.....	Haggerty	Eight
Alice M. Harabedian.....	Russell	Eight

CENTRAL LIBRARY

May—Dec. 1, 1923

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists.

Name	School	Grade	No.	
Allen, Timothy.....	St. Mary's.....	Fifth	1	
Barron, Mildred.....	Agassiz.....	Eighth	1	
Blackmur, Helen.....	Agassiz.....	Eighth	2	
Brassil, Laura.....	Harvard.....	Fifth	1	
Bullen, Catherine.....	St. Paul's.....	Sixth	1	
Burack, Evelyn.....	Harvard.....	Fourth	1	
Cassidy, John T.....	St. Peter's.....	Seventh	1	
Clifford, Grace.....	Russell.....	Eighth	4	Honor
Coleman, Margaret.....	Harvard.....	Sixth	1	
Counihan, Edward.....	Harvard.....	Fourth	5	Honor
Coyne, Mary (visiting Camb.)	Ricalton,....	{Sch. Maplewood, N. J.		
		{Fifth	4	Honor
Daresky, Anna.....	Roberts.....	Fifth	1	
Dorsey, Margaret P.....	Harvard.....	Seventh	4	Honor
Fiekers, Edmund.....	St. Mary's.....	Eighth	1	
Fishman, Samuel.....	Harvard.....	Eighth	1	
Flynn, Margery.....	St. Mary's.....	Eighth	1	
Foster, Laura.....	Harvard.....	Fourth	1	
Grace, Jane E.....	Russell.....	Eighth	2	
Grant, Marguerite.....	Agassiz.....	Fifth	1	
Haley, Helen.....	St. Paul's.....	Sixth	1	
Harrington, Earl.....	Harvard.....	Sixth	2	
Heller, Frances S.....	Harvard.....	Seventh	1	
Hershon, Lester.....	Harvard.....	Sixth	1	
Keenan, James.....	Agassiz.....	Seventh	1	
Lowe, Ernest.....	Houghton.....	Fourth	1	
McCarthy, John J.....	St. Mary's.....	Fifth	1	
McCullough, Margaret.....	St. Mary's.....	Eighth	1	
McKelleget, Richard.....	St. Paul's.....	Eighth	1	
Mahoney, Thomas.....	Harvard.....	Fifth	6	Honor
Manning, Howard (visiting Cambridge)..		{Chapel Hill Sch., N. C.		
		{Third	1	
Manning, John (visiting Cambridge).....		{Chapel Hill Sch., N. C.		
		{Fifth	1	
Manning, Isaac, Jr. (visiting Cambridge)		{Chapel Hill Sch., N. C.		
		{Seventh	1	
Marasco, Leonard.....	Harvard.....	Sixth	2	
Mercier, Louis F.....	St. Paul's.....	Fourth	1	
Metcalf, Mary E.....	St. Paul's.....	Sixth	1	
Minearo, Mary.....	Roberts.....	Sixth	1	
Minihan, John.....	St. Peter's.....	Fifth	2	
Morse, Priscella Antoinette.....	Merrill.....	Third	1	
Mullin, Francis	St. Paul's.....	Sixth	1	
Murphy, Edna.....	St. Mary's.....	Fifth	1	
Parsons, Gertrude C.....	St. Mary's.....	Eighth	2	
Phelan, Marie.....	St. Paul's.....	Sixth	1	

Richmond, Evelyn.....	Harvard.....	Sixth	1
Roorbach, Eliabeth Hubbell.....	Agassiz.....	Fourth	2
Ryder, Mary.....	St. Paul's.....	Fourth	1
Shain, Frances E.....	Harvard.....	Fifth	1
Sugarman, Beatrice.....	Harvard.....	Fifth	2
Tansey, Francis.....	Harvard.....	Sixth	1
Williams, Florence M.....	Agassiz.....	Seventh	1
Zimmerman, Ruth	Harvard.....	Fourth	2
Pyne, Anna.....	Harvard.....	Seventh	3 Honor

To December 1, 1923

HONOR CERTIFICATES issued for twenty books read, at least five of which are non-fiction.

EAST CAMBRIDGE BRANCH

May—Dec. 1, 1923

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists:

Name	School	Grade	No.	
Alberts, Jos.	Sacred Heart.....	Sixth	1	
Anderson, Mary	Sacred Heart.....	Seventh	4	
Ameral, Frank	Putnam.....	Fifth	4	Honor
Barrett, Clare	Sacred Heart.....	Fifth	2	
Bradley, Mary	Sacred Heart.....	Sixth	1	
Brady, Edna	Sacred Heart.....	Fifth	4	Honor
Benoit, Blanche	Sacred Heart.....	Sixth	2	
Blake, James	Sacred Heart.....	Sixth	2	
Barrett, Eileen	Sacred Heart.....	Eighth	2	
Botello, Geo.	Putnam.....	Fourth	1	
Bradley, Mary	Sacred Heart.....	Seventh	1	
Burns, Dorothy	Sacred Heart.....	Sixth	1	
Connors, Helen	Sacred Heart.....	Fifth	4	Honor
Corcoran, Mary	Sacred Heart.....	Fifth	3	
Connors, Mary	Sacred Heart.....	Eighth	3	
Carozza, Margaret	Thorndike.....	Sixth	3	
Canty, Mary	Sacred Heart.....	Eighth	4	Honor
Crowley, John J.....	Sacred Heart.....	Eighth	1	
Clifford, Ruth	Sacred Heart.....	Fourth	1	
Cunningham, John	Sacred Heart.....	Sixth	1	
Coughlin, Chas.	Sacred Heart.....	Sixth	3	
Crowley, Frances	Sacred Heart.....	Seventh	4	Honor
Cunningham Margaret.....	Sacred Heart.....	Eighth	1	
Campbell, Francis	Sacred Heart.....	Sixth	1	
Cummings, Mary	Sacred Heart.....	Sixth	3	
Connelly, Francis	Sacred Heart.....	Sixth	4	Honor
Chute, Elaine	Putnam.....	Fourth	1	
Consolazio, Wm.	Putnam.....	Seventh	1	
Duffy, Dorothy	Sacred Heart.....	Fourth	2	
Duffy, Florence	Sacred Heart.....	Sixth	3	
Dobrokolski, Peter	St. Hedwig's.....	Seventh	1	
Del Rocco, Louis.....	Putnam.....	Fourth	1	
Devine, Edward	Sacred Heart.....	Eighth	1	
Doyle, Julia	Sacred Heart.....	Sixth	4	
Daley, Margaret	Sacred Heart.....	Fifth	1	
Desmond, Agnes	Sacred Heart.....	Eighth	2	
Duggan, John	Sacred Heart.....	Fifth	1	
Duggan, Mary	Sacred Heart.....	Sixth	4	Honor
Finn, Daniel	Sacred Heart.....	Sixth	3	
Flannery, Vincent	Sacred Heart.....	Sixth	2	
Foster, Francis	Sacred Heart.....	Seventh	2	
Foster, Madeline	Sacred Heart.....	Eighth	4	Honor
Finlan, Barbara	Sacred Heart.....	Sixth	3	
Flynn, Dorothy	Sacred Heart.....	Seventh	1	
Fox, Mary	Sacred Heart.....	Sixth	2	
Faria, Edward	Thorndike.....	Sixth	1	
Goss, Margaret	Sacred Heart.....	Seventh	4	Honor
Grady, Catherine	Sacred Heart.....	Fifth	3	
Gargano, George	Putnam.....	Fourth	1	

George, Albert	Putnam.....	Fifth	4	Honor
Hurley, John	Sacred Heart.....	Sixth	4	Honor
Henihan, Agnes	Sacred Heart.....	Seventh	4	Honor
Hinds, Walter	Sacred Heart.....	Sixth	1	
Hogan, Clementina	Sacred Heart.....	Sixth	3	
Hogan, Mary	Sacred Heart.....	Seventh	1	
Hinricksen, Russell	Sacred Heart.....	Eighth	1	
Herrick, Elizabeth	Sacred Heart.....	Sixth	1	
Harold, Gertrude	Sacred Heart.....	Fifth	1	
Henihan, Thomas	Sacred Heart.....	Sixth	3	
Iovine, Eva	Thorndike.....	Sixth	1	
Long, Mary.....	Sacred Heart.....	Sixth	1	
Lopes, Agnes	Thorndike.....	Fifth	1	
McLaughlin, Alice.....	Sacred Heart.....	Eighth	4	Honor
McShea, Mary.....	Sacred Heart.....	Seventh	1	
McKenzie, James	Sacred Heart.....	Seventh	1	
Malloy, Timothy.....	Sacred Heart.....	Sixth	1	
McCarthy, Esther.....	Sacred Heart.....	Sixth	1	
McGrath, Jane.....	Sacred Heart.....	Fifth	1	
McCarthy, John.....	Sacred Heart.....	Sixth	4	Honor
Murphy, Helen.....	Sacred Heart.....	Seventh	2	
Mancini, Angelina	Thorndike.....	Fourth	1	
McSweeney, Francis.....	Sacred Heart.....	Seventh	1	
Monahan, Doris	Sacred Heart.....	Sixth	4	Honor
McCormick, Julia.....	Sacred Heart.....	Sixth	4	Honor
O'Loughlin, Helen.....	Sacred Heart.....	Fifth	1	
O'Callaghan, Elizabeth.....	Sacred Heart.....	Eighth	1	
O'Connell, Florence.....	Sacred Heart.....	Fifth	3	
O'Keefe, Anna.....	Sacred Heart.....	Sixth	3	
Proceto, Anna.....	Sacred Heart.....	Seventh	1	
Partridge, David	Sacred Heart.....	Fifth	1	
Powers, John.....	Sacred Heart.....	Eighth	1	
Powers, Elizabeth.....	Sacred Heart.....	Sixth	4	Honor
Powers, Anna.....	Sacred Heart.....	Fifth	4	Honor
Powers, Thomas	Sacred Heart.....	Sixth	1	
Perry, Deolinda.....	Putnam.....	Fifth	1	
Ryan, Margaret M.....	Sacred Heart.....	Sixth	1	
Ryan, Thomas.....	Sacred Heart.....	Sixth	2	
Ryan, Elizabeth.....	Sacred Heart.....	Sixth	4	Honor
Ryan, John.....	Sacred Heart.....	Fifth	5	
Scannell, Helen.....	Sacred Heart.....	Sixth	3	
Sullivan, Lillian.....	Sacred Heart.....	Seventh	1	
Shinnick, Francis.....	Sacred Heart.....	Sixth	1	
Silviera, John.....	Putnam.....	Sixth	4	Honor
Stoute, Theresa.....	Sacred Heart.....	Seventh	1	
Smith, Florence.....	Sacred Heart.....	Sixth	3	
Toner, Joseph.....	Sacred Heart.....	Eighth	1	
Travers, Gilbert.....	Thorndike.....	Sixth	4	Honor
Walsh, Margaret C.....	Sacred Heart.....	Eighth	3	Honor
Walsh, Joseph.....	Sacred Heart.....	Sixth	2	
Warren, Irene.....	Sacred Heart.....	Sixth	1	
Warren, Mary.....	Sacred Heart.....	Sixth	2	
Weber, Lillian.....	Sacred Heart.....	Sixth	4	Honor

To December 1, 1923

HONOR CERTIFICATES issued for twenty books read, at least five of which are non-fiction.

NORTH CAMBRIDGE BRANCH LIBRARY

May—Dec. 1, 1923

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists:

Name	School	Grade	No.
Alexander, Mable	Ellis.....	Seventh	2
Carten, Fred	Russell.....	Fourth	1
Curran, Margaret	Ellis.....	Seventh	1
Curtin, Eilean.....	Wyman Open Air.....	Seventh	1
Gorman, Robert	Ellis.....	Seventh	1
Guiney, James	Russell.....	Fifth	1
Howard, William	Ellis.....	Seventh	1
Nathan	C. H. & L., First year		3
Nixon, Elizabeth.....	St. John's.....	Seventh	1
O'Donnell, Thomas.....	St. Peter's.....	Seventh	4 Honor
Oleson, Theodore.....	Peabody.....	Fourth	2
Rinaldo, Frank	Ellis.....	Fifth	1
Rinaldo, Thomas	Ellis.....	Eighth	3
Skinner, Evelyn.....	St. John's.....	Seventh	1
Stokes, William	Russell.....	Sixth	2

To December 1, 1923

HONOR CERTIFICATES issued for twenty books read, at least five of which are non-fiction.

CAMBRIDGEPORT BRANCH

May—Dec. 1, 1923 .

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists:

Name	School	Grade	No.
Berkman, Israel	Fletcher.....	Fourth	1
Boucher, Katherine L.....	Morse.....	Seventh	2
Boyce, Alice	St. Mary's.....	Fifth	1
Cogswell, Thelma	Harvard.....	Fourth	2
Cullen, Marian	Harvard.....	Sixth	2
Goldenberg, Bernard	Morse.....	Eighth	1
Gorakian, Goraugh	Harvard.....	Fifth	2
Grace, Agnes.....	St. Mary's.....	Fifth	1
Goverman, Rebecca	Harvard.....	Sixth	1
Grace, Edward James.....	St. Mary's.....	Seventh	1
Hamilton, Charles F.....	Morse.....	Seventh	1
Norton, John J.....	St. Mary's.....	Fourth	1
O'Brien, Howard	Harvard.....	Fourth	1
Olney, Blanche	Fletcher.....	Fifth	1
Reilly, Mary Harriet.....	Felton Open Air.....	Seventh	1
Speil, Clara Sarah.....	Webster.....	Fifth	1
Stearns, Geraldine Ruth.....	Harvard.....	Sixth	2
Webster, Gertrude	Harvard.....	Fifth	1

MOUNT AUBURN BRANCH

May—Dec. 1, 1923

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists:

Name	School	Grade	No.
Downing, Elsie M.....	Russell.....	Seventh	5 Honor
Downing, Katherine	Russell.....	Sixth	4 Honor
Gallegher, Margaret	Russell.....	Seventh	4 Honor
Harabedian, Alice M.....	English High.....	First year.....	4 Honor
Hayes, Truman	Russell.....	Seventh	5 Honor
Joyce, William	Russell.....	Sixth	4 Honor
Kenney, Helen	Haggerty.....	Fourth	2
Kenney, Joseph P.....	Haggerty.....	Eighth	4 Honor
Kenney, Laura	Haggerty.....	Sixth	4
McCarthy, Katherine	Russell.....	Fifth	5 Honor
Rogers, Jeanne	Russell.....	Fourth	1
Whouley, Gertrude	Russell.....	Sixth	4 Honor

To December 1, 1923

HONOR CERTIFICATES issued for twenty books read, at least five of which are non-fiction.

CAMBRIDGE FIELD BRANCH

May—Dec. 1, 1923

The following pupils of the Grammar Schools of Cambridge have been awarded certificates for reading and reporting on five books on the Massachusetts State Certificate Reading Lists:

Name	School	Grade	No.	
Ackerman, Sarah	Wellington.....	Eighth	4	Honor
Berley, Hilda	Wellington.....	Eighth	3	
Bettencourt, Rose	Kelley.....	Fifth	1	
Candido, Leo	Wellington.....	Fourth	4	Honor
Collins, Joseph	Kelley.....	Fourth	2	
Collins, Margaret	Kelley.....	Sixth	1	
Coughlin, Francis H.....	Wellington.....	Eighth	1	
Creedon, Timothy	Kelley.....	Eighth	1	
Cunningham, Harold	Wellington.....	Seventh	1	
Curran, Leo	Harvard.....	Fifth	1	
D'Alessio, Anthony	Wellington.....	Seventh	1	
Diamond, Annie	Wellington.....	Seventh	1	
DiMarino, Concetta	Kelley.....	Sixth	4	Honor
Edgecomb, Wm. John.....	Kelley.....	Fourth	1	
Flynn, Catherine.....	St. Mary's.....	Sixth	1	
Garberg, Mary	Wellington.....	Eighth	1	
Goldman, Martha	Wellington.....	Fifth	4	Honor
Hannon, Edwin	Wellington.....	Seventh	2	
Hoffman, Fred	Fletcher.....	Eighth	3	
Horrigan, Mary	Kelley.....	Sixth	4	
Jusivez, Mary	Kelley.....	Fifth	4	Honor
Jusivicuis, Mary	Kelley.....	Fifth	1	
Kaloglon, Stephen	Wellington.....	Eighth	2	
Kawolis, Antose	Wellington.....	Seventh	1	
Keegan, Harold	Wellington.....	Seventh	4	Honor
Long, Rose	Wellington.....	Seventh	1	
Lucey, Lena	Kelley.....	Fourth	1	
McNamara, John	Wellington.....	Sixth	1	
Murphy, Charles	Wellington.....	Fifth	5	Honor
O'Neil, Catherine Mary.....	Kelley.....	Eighth	4	
Paiva, Arthur	Wellington.....	Fifth	1	
Pawlinska, Helen	Kelley.....	Sixth	5	Honor
Persky, Evelyn	Kelley.....	Fifth	1	
Piltch, Sarah	Wellington.....	Seventh	1	
Powell, Dorothy Isabella.....	Kelley.....	Sixth	2	
Pryzhmont, Pauline	Wellington.....	Fifth	4	Honor
Raulinitis, Eva	Wellington.....	Fifth	3	
Rogers, Fred	Wellington.....	Sixth	1	
Raulinitis, Anna	Wellington.....	Fourth	2	
Saccoccio, Palma	Wellington.....	Fifth	1	
Sakowicz, Alice	Wellington.....	Seventh	4	Honor
Skapinski, Helen	Kelley.....	Fourth	3	
Skapinski, Mary	Kelley.....	Fifth	4	Honor
Souza, Mary	Wellington.....	Seventh	2	
Souza, Manuel	Wellington.....	Seventh	3	
Tucker, Grace	Wellington.....	Sixth	1	

To December 1, 1923

HONOR CERTIFICATES issued for twenty books read, at least five of which are non-fiction.

Subject: Detailed report on the Massachusetts State Certificate Reading Lists from May, 1923, the time that the Cambridge Public Library began this work, to Dec. 1, 1923, the date that this report was due the Massachusetts Free Public Library Commission.

Jan. 9, 1924.

The following report on certificates issued in conjunction with Certificate Reading is the one to be included in the report of the Juvenile Department for the year ending April 1, 1924. This is the total report of the work done at the Main Library and its Branches in this connection, and in substance the same as the one sent by the Juvenile Department to the Mass. Free Pub. Lib. Comm. on Dec. 1, 1923.

ORDINARY CERTIFICATES issued 504
HONOR CERTIFICATES issued..... 49

	Ordinary	Honor
Central	83	6
North	25	
Port	23	
East	224	23
Field	103	11
Mount	46	9
	<hr/> 504	<hr/> 49

The following are some interesting figures made from a survey of the certificate reading work.

Six books of fiction most popular

Defoe. Robinson Crusoe
Hale. Man without a country
Irving. Rip Van Winkle
Burnett. Secret garden
Dodge. Hans Brinker.
Clemens. Tom Sawyer

Six books of non-fiction most popular

Barnes. Midshipman Farragut
Hawthorne. Grandfather's chair
Judd. Wigwam stories
Brooks. Abraham Lincoln
Andrews. Stories Mother Nature told her children
Lamb. Tales from Shakespeare

Grade most interested—6th (154 certificates issued).
Grade least interested—4th (58 certificates issued).
Month greatest number of books read—November (277).
Month least number of books read—August (17).

Schools showing the greatest number of readers using the lists:

	Ordinary	Honor
1. Sacred Heart	194	19
2. Wellington	59	7
3. Harvard	51	4
4. Russell	42	9
5. Kelley	39	4

Branch showing the highest record—East 224
Branch showing the lowest record—Port 23

Attached above is a detailed list of the names of the children to whom certificates have been given as issued through the Main Library and its Branches.

Respectfully,

KATHERINE McNALLY,

Juvenile Department.

OTHER ACTIVITIES ALONG PUBLICITY LINES

The Civics Department of the Cantabrigia Club announced a Free Course of Lectures on

“THE CITY GOVERNMENT OF CAMBRIDGE”

Wednesday Afternoons at 4 o'clock during Nov. and Dec., 1924, and Jan., 1925, at the Cantabrigia Club Room (Brattle Hall).

The dates, lectures and subjects of the lectures were as follows:

- | | |
|------------|---|
| Nov. 7th. | Appropriations and Finance
City Auditor, Chas. H. Thurston |
| Nov. 14th. | Assessor's Department
Chairman, John C. Haverty |
| Nov. 21st. | Building Department
Supt. Jeremiah F. Downey |
| Nov. 28th. | Engineering Department
City Engineer, Lewis M. Hastings |
| Dec. 5th. | Parks and Recreations
Chairman, Carroll Q. Doten
Health Department
Chairman Dr. Joseph M. Wadden |
| Dec. 12th. | Hospital Department
Public Welfare Department (Formerly Overseers of the Poor)
Mr. Edmund A. Whitman |
| Jan. 30th. | School Department, also an Address from his Honor the Mayor |
| Dec. 19th. | License Commission
Chairman Wm. F. Brooks
Sealer of Weights and Measures
Felix C. McBride |
| Jan. 2nd. | Election Commissioners
Sec'y Harry Pennamen
Police Department
Special Officer Charles Mallahan
Police Woman Edith M. Taylor |
| Jan 9th. | Electrical Department
City Electrician Timothy C. O'Hearn |
| Jan. 16th. | Water Department
Chairman James J. Scully |
| Jan. 23d. | Public Library
T. Harrison Cummings, Librarian |

The public were invited to attend.

PUBLIC CELEBRATIONS

Cambridge was again represented in the mammoth Columbus Celebration in Boston this year and the following excerpt was received in a letter from the Director of Public Celebrations.

"We consider the Cambridge Flag feature the finest thing of its kind, as is evidenced by our request each year for your co-operation, and I trust that you will convey to the authorities our deep appreciation of their kindness. Needless to say we are always grateful for your constant and generous co-operation."

During the summer months the Board of Park Commissioners ran a series of open air twilight entertainments on the summer playgrounds and these included picture shows illustrating the work of the Cambridge Public Library. The librarian has also contributed several addresses on public occasions emphasizing certain historical events that have transpired in this city, but these were designed specially to promote patriotism and Americanism among our people, as well as publicity for the Public Library.

Literature, Current Events, University Extension courses and Library Education have figured extensively in all our activities and we are looking forward to a still greater success along these lines during the coming year. The Cambridge Press have generously co-operated with the library by publishing a special book list weekly, sent out by the library and illustrated with an electro of the library building. The moving picture theatres have run a series of lantern slides from time to time calling public attention to books and the work of the library in promoting adult education.

RESOURCES OF LIBRARY

The Cambridge Public Library calls attention to several special sources of information in this library which may be of service in furnishing material to readers who seek this sort of information. Among our resources is a collection of nearly four thousand books devoted to New England genealogy in addition to and outside of the publications of the genealogical societies. Many of these books are rare and out of print publications and include numerous family genealogies.

We have, also, complete files of the New England Historic Genealogical Register.

In regard to local history we have six hundred volumes mainly town histories and also the complete files of the publications of the Bostonian Society; Massachusetts Historical Society, both Collections and Proceedings; also *publications* of the Cambridge Historical Society, whose headquarters were until recently at the Cambridge Public Library; the Essex Institute Collections; Medford Historical Society collections.

Furthermore, we have an almost complete collection of first editions of books published, edited, or written by Cambridge authors during the past two hundred years. In addition we have a fine collection of over thirty-five hundred volumes on Mexico and Central America and the great Southwest that is being constantly added to through a special endowment.

Finally, we are fortunate in having a fine musical collection that has been carefully built up by a discriminating committee of experts into a special library consisting of rare musical scores and many valuable books relating to the history and development of music and instrumentation.

All of these resources are gladly placed at the disposal of special students and find a place in the census of the resources of the Massachusetts libraries.

BRANCH LIBRARIES

The excellent showing made during the year by the branch libraries is a matter of great congratulation. The increase in the circulation of books for home use is very marked and their combined circulation now foots up to more than 50 per cent. of the total circulation of the library system. The work has steadily increased from year to year in the home use of books and in the matter of reference work with both adults and children. The facilities for helping readers to better reading in the branch libraries should be increased to give them as complete a library service as possible. As rapidly as funds will permit, a story hour should be conducted at all the branches at least once or twice a month for the children. The book collection should also be increased; new and up-to-date books should be purchased and a much larger book fund must be provided if the branch libraries are to continue the efficient service they have rendered in the past.

GIFTS AND LEGACIES

Gifts of money to the library sometimes come from public-spirited citizens and sometimes from organizations or groups of people who are especially interested in procuring a certain kind of book collection along certain lines. The public library of any city or town is a worthy institution to promote; and it merits well to be remembered by its citizens. Fortunate, indeed, is the library that has so impressed its value and usefulness upon the community so that its benefactors remember it with generous donations that promote its welfare.

In closing this report, I desire to acknowledge the fine interest shown by His Honor, the Mayor, and the members of the City Council in the welfare of the Cambridge Public Library. I am also grateful for the confidence bestowed and the co-operation and sympathy shown by every member of the Board of Trustees and also last, but not least, I herewith make due acknowledgment of the faithful work and the fine spirit of service shown by the library staff.

Whatever measure of success the library has made during the year we hope to make it a more vital force and of larger service in the community during the coming years.

Respectfully submitted,

T. HARRISON CUMMINGS.

LIBRARY STATISTICS

April 7, 1923—March 31, 1924

Number of Card Holders

	1924
Borrowers registered during year (Central Library).....	2,206
Total numbers of borrowers	15,549

Branch Libraries

Borrowers registered during year (North Cambridge Branch).....	689
Total number of borrowers (North Cambridge Branch).....	3,968
Borrowers registered during year (East Cambridge Branch).....	304
Total number of borrowers (East Cambridge Branch).....	3,066
Borrowers registered during year (Cambridgeport Branch).....	1,243
Total number of borrowers (Cambridgeport Branch).....	6,010
Borrowers registered during year (Cambridge Field Branch).....	492
Total number of borrowers (Cambridge Field Branch).....	3,484
Borrowers registered during year (Mt. Auburn Branch).....	190
Total number of borrowers (Mt. Auburn Branch).....	860

At Central and Branches

Total number of borrowers (those who have registered for new cards within four years)	32,937
---	--------

Accessions

Central Library

Added by purchase (new books)	2,275	
Added by purchase (from funds)	291	
Added by purchase (replacements)	954	
Added by gift	363	
Lost books found	37	
		3,920

Branch Libraries

Added by purchase (new books)	2,074	
Added by purchase (replacements)	1,055	
Added by transfer from Central Library	53	
Added by gift	48	
Lost books found	5	
		3,235
		7,155

Deductions

Central Library

Discarded	1,391	
Missing	85	
Transfer to branches	53	
		1,529

Branch Libraries

Discarded	1,721		
Missing	103		
		1,824	
			3,353
Net gain			3,802
In the library April 1, 1923	121,331		
In the library April 1, 1924	125,133		

Distributed as follows:

Central Library	99,324	
North Cambridge Branch	7,764	
East Cambridge Branch	5,843	
Cambridgeport Branch	6,132	
Cambridge Field Branch	3,258	
Mount Auburn Branch	2,812	
		125,133

ADULT CIRCULATION 1923-1924

	Central Library	North Cambridge Branch	Cambridgeport Branch	Cambridge Field Branch	East Cambridge Branch	Mount Auburn Branch
General Works	358	141	36	2	1	2
Philosophy	2,052	415	201	20	56	51
Religion	1,553	1,203	135	17	41	49
Sociology	4,261	1,003	427	120	169	150
Philology	610	346	78	34	26	274
Science	1,775	898	203	7	39	91
Useful Arts	3,290	981	532	104	187	177
Fine Arts	2,327	924	304	36	82	51
Music	1,189					
Literature	8,960	1,380	968	307	1,411	277
History	7,843	1,792	935	272	267	316
Biography	5,158	1,033	413	85	141	302
Magazines	1,980	2,669	680	387	1,159	1,294
Fiction	61,821	49,234	28,727	13,036	14,600	7,498
Total	103,177	62,019	33,639	14,427	18,179	10,532

JUVENILE CIRCULATION

	Central Library	North Cambridge Branch	Cambridgeport Branch	Cambridge Field Branch	East Cambridge Branch	Mount Auburn Branch
General Works.....	236	16	433	.....	5	.....
Philosophy	7	15	8	.....	18	17
Religion	241	229	269	113	231	110
Sociology	940	492	846	883	928	377
Philology	2	14	2	.....	.....	.....
Science	435	469	649	724	505	241
Useful Arts	482	409	336	461	455	147
Fine Arts	334	515	343	201	364	195
Literature	682	635	671	782	721	377
History	1,675	1,690	2,154	2,627	3,004	960
Biography	571	480	409	649	584	354
Magazines	94	411	97	191	510	571
Fiction	16,071	18,072	15,757	17,334	14,299	7,389
Total	21,770	23,447	21,974	23,965	21,624	10,738

Total Circulation	365,491
Estimated circulation in schools and agencies.....	14,215
Grand total	379,706

Books to Outside Agencies

Grade schools	1,782
Branch Libraries	1,061
	2,843

Cataloguing

Central Library

	Adult	Juv'le	
Titles (shelf cards)	1,755	228	1,983
New volumes catalogued	2,174	258	2,432
Volumes recatalogued	255	36	291
Library of Congress cards prepared	6,538	552	7,090
Cards typed	1,143	157	1,300
Cards replaced	1,663	219	1,882
Miscellaneous	423	1,105	1,528

Branch Libraries

Titles (shelf cards)	795
New volumes catalogued	2,149
Volumes recatalogued	1
Library of Congress cards prepared.....	3,665
Cards typed	717
Cards replaced	1,336
Miscellaneous cards	47

Volumes rebound:

Central Library	1,161
Branch Libraries..	1,700

1,861

Reference Department

Recorded readers	25,666
Recorded questions	5,537
Books from stack charged for use in reference department.....	13,600

Juvenile Department

Recorded readers	35,163
Recorded questions	5,704
Attendance at story hours (3 story hours)	118

LIBRARY STATISTICS ACCORDING TO FORM ADOPTED BY AMERICAN LIBRARY ASSOCIATION

Annual report for year ended March 31, 1924.

Name of library: Cambridge Public Library, Cambridge, Mass.

Name of Librarian: Thomas Harrison Cummings.

Date of founding: 1858.

Population served (latest statistics): 112,000 estimated.

Assessed valuation of city: \$152,261,600.

Rate of tax levy: \$29.90 per thousand.

Terms of use: Free for lending, free for reference, free to students.

Total number of agencies:

Consisting of—Central Library

Branches 5

Stations 1

Other agencies:

24 Schools

Number of days open during year (Central Library).....	341
Hour open each week for lending (Central Library).....	72
Hours open each week for reading (Central Library).....	79

INCREASE

Number of volumes at beginning of year.....	121,331
Number of volumes added during year by purchase.....	6,744
Number of volumes added during year by gifts or exchange.....	411
Number of volumes withdrawn during year	3,353
Total number at end of year.....	125,133
Number of volumes in Reference department (included in total)	2,561
Number of volumes added during year by binding material.....	164
Number of volumes of fiction lent for home use.....	263,838
Total number of volumes lent for home use.....	365,491
Estimated circulation in schools and agencies.....	14,215

REGISTRATION

Number of borrowers registered during year.....	5,133
Total number of registered borrowers.....	32,937
Registration period: years 4.	

Number of newspapers and periodicals currently received:

	Titles	Copies
Newspapers	16	54
Periodicals	225	395

Number of persons using library for reading and study:

(Reference Room)	25,666
(Children's Room)	35,163

Number of publications issued during year.....	1
Number of staff, library service.....	27
Number of staff, janitor service.....	3

GIFTS

April, 1923—April, 1924

Volumes

American Chemical Society, New York.....	1
American Committee for Relief in Ireland, New York.....	2
American Jewish Committee, New York.....	1
American Relief Clearing House, Paris, France.....	1
American Walnut Manufacturers' Association, Chicago, Ill.	1
Ames, Mrs. James Barr, Cambridge.....	1
Anderson, J. Alfred, Boston.....	1
Appleton Company, New York.....	1
Batchelder, Samuel F., Cambridge.....	8
Bigelow, Edmund B., Joliet, Ill.....	1
Bigelow, F. H., Cambridge.....	1
Bletcher, J. S. and Co., Milwaukee, Wis.....	1
Boston Globe, Boston.....	1
Bradbury, William H., Cambridge.....	1
Brentano, publisher, New York.....	1
Bynner, Miss C. N., Cambridge.....	1
Cahill, Santiago P., New York.....	1
Caldwell, Mosser & Willaman, Chicago, Ill.....	1
Carnegie Endowment for International Peace, Wash., D. C.	1
Carnegie Endowment for Advancement of Teaching, N. Y.	1
Clark, David O., Wareham, Mass.....	3
Crocker, Douglas, Fitchburg, Mass.....	1
Croffut, W. A., Washington, D. C.....	1
Cruikshank, A. B., New York.....	1
Doody, Rev. Michael J., Cambridge.....	1
Drew, Miss Maria, Cambridge.....	1
Edwards, Mrs. J. C., Cambridge.....	1
Fall, Charles G., Boston.....	1
Farnsworth, E. C., Portland, Me.....	1
Frost, Norman W., Cambridge.....	1
Grand Army of the Republic, Boston.....	1
Hale Memorial Fund, Bishop, Chicago, Ill.....	1
Hartzog, William B., Mason, Mich.....	1
Hayes, Miss Alice, Cambridge.....	8
Herkimer County Historical Society, Herkimer, N. Y.....	1
Hill, James L., Salem, Mass.....	1

Hyde, Mary K., Cambridge.....	1
Japan Society, Inc., New York.....	1
Johnson, Howard, Baltimore, Md.....	1
Kennedy, F. L., Cambridge.....	4
Kohler, Charles, Savannah, Ga.....	1
Lane, William C., Cambridge.....	2
Lauer, Marjorie, Cambridge.....	1
Luckey, L. W., New York.....	1
Macmillan Company, New York.....	2
Massachusetts, Commonwealth of.....	6
Massachusetts, Medical Society, Boston.....	1
Mathematical Association of America, New York.....	1
Merrill, W. S., Chicago, Ill.....	4
Middlesex County Commissioners.....	1
Miller, Mildred A., Cambridge.....	1
Mirshing, V., Cambridge	1
Morrill, Mrs. Charles, Cambridge.....	19
Murphy, Claudia Quigley, New York.....	1
National Bank of Commerce, New York.....	1
National Safety Council, New York.....	1
National Sculpture Society, New York.....	2
New England Dairy and Food Council, Boston.....	1
News Publishing Company, Sacramento, Cal.....	1
Nijgh & Van Ditmar's, publishers, Rotterdam, Holland.....	1
Norcross, Grenville H., Boston, Mass.....	11
North American Dye Corporation, Mount Vernon, N. Y.....	1
Palmer, William Lincoln, Boston.....	1
Philippine Commission of Independence, Manila, P. I.....	1
Pillsbury, Albert E., Boston.....	1
Pollard, Miss Laura, Cambridge.....	1
Ramsey, Mrs. C. H., Cambridge.....	8
Revell, Fleming H., New York.....	1
Roosevelt Memorial Association, New York.....	2
Satzewich, Stephen, Hinsdale, Mass.....	2
Sawyer, J. D., New York.....	1
Scudder, Winthrop S., Dedham, Mass.....	1
Skeel, Mrs. Roswell, Jr., White Sulphur Springs, W. Virginia	1
Smith, Russell D., Indianapolis, Ind.....	1
Smithsonian Institution, Washington, D. C.....	2

Society of Colonial Wars in the State of New Jersey.....	1
Speight-Humbertson, Clara E., New York.....	1
Sprague, P. W., Boston.....	1
Storer, Mrs. Bellamy, Paris, France.....	1
Tercentenary Executive Committee of Portsmouth, N. H.....	1
Unitarian Association, American, Boston.....	1
United States Agriculture, Department of.....	1
United States Census, Bureau of.....	1
United States Commerce, Department of.....	8
United States Patent Office.....	12
United States Shipping Board Emergency Fleet Corp'n.....	1
United States Superintendent of Documents.....	1
United States Treasury Department.....	1
United States Veterans' Bureau.....	2
United States War Department.....	1
Vickrey, Charles V., New York.....	1
Warren, Fiske, Harvard, Mass.....	1
Westfall, Voila, South Bend, Ind.....	1
Williams, Helen E., Knowlton, Canada.....	1
Zimmerman, L. M., Baltimore, Md.....	1
Zulen, Pedro S., Lima, Peru.....	1

ANNUAL TREASURER'S REPORT FOR YEAR ENDING MARCH 26, 1924

Citizen's Subscription Fund

Balance March 31, 1923		
Bonds	\$5,421 05	
Bank	85 49	Expended to 3/26/24.....
Receipts from income.....	229 14	Balance in bonds.....
Receipts from checking acct.	52 07	Balance in Bank.....
	<u>\$5,787 75</u>	<u>\$5,787 75</u>

Cummings Fund

Balance March 31, 1923		
Bonds	\$1,968 42	Expended to 3/26/24.....
Bank	12 97	Balance in bonds
Receipts from Income.....	83 65	Balance in bank.....
	<u>\$2,065 04</u>	<u>\$2,065 04</u>

Fay Fund

Balance March 31, 1923		
Bonds	\$1,000 00	Expended to 3/26/24.....
Bank	11 17	Balance in bonds.....
Receipts from income.....	42 50	Balance in bank.....
	<u>\$1,053 67</u>	<u>\$1,053 67</u>

William Penn Harding Fund

Balance March 31, 1923		
Savings deposit	\$1,000 00	Expended to 3/26/24.....
Bank	21	Bal. in savings deposit....
Receipts from income.....	50 00	Balance in bank.....
	<u>\$1,050 21</u>	<u>\$1,050 21</u>

Abigail W. Howe Fund

Balance March 31, 1923		
Bonds	\$3,000 00	Expended to 3/26/24.....
Bank	32 97	Balance in bonds.....
Receipts from income.....	127 50	Balance in bank.....
	<u>\$3,160 47</u>	<u>\$3,160 47</u>

Maria Murdock Fund

Balance March 31, 1923		
Bonds	\$2,000 00	Expended to 3/26/24.....
Bank	8 12	Balance in bonds.....
Receipts from income.....	85 00	Balance in bank.....
	<u>\$2,093 12</u>	<u>\$2,093 12</u>

William E. Saunders Fund

Balance March 31, 1923

Bonds	\$6,889 48	Expended to 3/26/24.....	\$235 49
Savings deposit	752 35	Balance in bonds.....	6,889 48
Receipts from income.....	302 13	Bal. in savings deposit....	786 57
Int. on savings deposit.....	34 22	Balance in bank.....	66 64
	<hr/>		<hr/>
	\$7,978 18		\$7,978 18

Edward H. Whorf Fund

Balance March 31, 1923

Bonds	\$3,000 00	Expended to 3/26/24.....	\$40 22
Bank	386 99	Balance in bonds.....	3,000 00
Receipts from income.....	120 00	Balance in bank.....	466 77
	<hr/>		<hr/>
	\$3,506 99		\$3,506 99

Mehitable C. C. Wilson Fund

Balance March 31, 1923

Savings deposit	\$804 92	Expended to 3/26/24.....	
Interest on savings deposit	37 64	Balance in bank.....	\$842 56
	<hr/>		<hr/>
	\$842 56		\$842 56

James A. Woolson Fund

Balance March 31, 1923

Bonds	\$4,921 05	Expended to 3/26/24.....	\$333 26
Bank	705 84	Balance in bonds.....	4,921 05
Receipts from income.....	209 14	Balance in bank.....	581 72
	<hr/>		<hr/>
	\$5,836 03		\$5,836 03

1923

FINES ACCOUNT

Apr. To cash from fines	\$210 42	By cash paid City Treasurer	\$2,036 06
May To cash from fines	169 30		
June To cash from fines	168 49		
July To cash from fines	91 12		
Aug. To cash from fines	110 66		
Sept. To cash from fines	115 87		
Oct. To cash from fines	170 11		
Nov. To cash from fines	157 18		
Dec. To cash from fines	181 70		
Jan. To cash from fines	275 51		
Feb. To cash from fines	205 79		
Mar. To cash from fines	179 91		
	<hr/>		<hr/>
	\$2,036 06		\$2,036 06

APPENDIX

ORDINANCES

PASSED BETWEEN APRIL 1, 1923 AND APRIL 1, 1924

An Ordinance in amendment to an Ordinance entitled: "Street"
Be it ordained by the City Council of the City of Cambridge as follows:

Chapter 25 of the Revised Ordinances of 1892, as amended to November, 1899, is hereby further amended by adding after Section 29 the following:

The tenant or occupant or any person having the care of a building any part of which projects over the sidewalk or footway, or if there is no tenant, occupant or other person having the care of the whole of such building, the owners thereof shall cause to be removed, immediately, any ice dangerous to life or limb which has formed on any part of such building projecting over the sidewalk or footway; and if he fails so to do, he shall be liable to a penalty of not less than two nor more than ten dollars; and for each and every hour after being notified either by a police officer or other city official to remove the ice during which such ice remains overhanging the sidewalk or footway, he shall be liable to a further penalty of not less than one nor more than ten dollars. The owners of any poles situated upon the sidewalks and all wires supported by said poles shall cause to be removed, immediately, any ice formed on any part of such poles or wires and if such owner or owners fail so to do they shall be liable to the same penalty as herein provided against an owner, tenant, occupant or other person having the care of buildings.

Section 31 is hereby amended by adding after the section the following:

When a building is used or occupied by more than one tenant, the owner or person having care of such building shall cause the ice to be removed from the building, in the manner provided in Section 29 of this Chapter, and in default thereof shall be liable to the same penalties as are therein provided.

In City Council April 24, 1923.

Passed to be ordained as amended,

JAMES T. BARRETT, President.

Executive Department, April 27th, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy: Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in amendment to an Ordinance entitled
"Regulation of Traffic."

Be it ordained by the City Council of the City of Cambridge as
follows:

Section 1 of Article VII is hereby amended by including in
the list of one-way streets: "Granite Street from Magazine
Street to Brookline Street in an easterly direction."

In City Council, May 8, 1923.

Passed to be ordained.

JAMES T. BARRETT, Chairman.

Executive Department, May 11, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment of an Ordinance entitled
"Construction, Maintenance and Inspection of Buildings,"
amending the present building code by incorporating therein
the Zoning Ordinance as amended was passed to be ordained at
a meeting of the City Council held on December 31st, 1923, and
approved by His Honor the Mayor on January 7th, 1924.

Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled, "Duties
and Salaries"

Be it ordained by the City Council of the City of Cambridge
as follows:

Section 30 of Chapter 28 of the Revised Ordinances of 1892,
as amended to November 8, 1899, is hereby further amended in
the relating to the salaries of the officers, hereinafter named,
who shall receive the following salaries beginning April 1, 1924:

Assessors, each	\$3,500
City Auditor	4,500
City Treasurer and Collector	4,000
City Engineer	4,200
City Electrician	3,750
Clerk of Committee	3,300
City Clerk	4,200
City Messenger	2,700
Superintendent of Public Buildings.....	3,800
Superintendent of Streets	3,750
Chief of Fire Department	3,750
Chief of Police Department	3,750
City Solicitor	4,200
City Physician	2,700
Sealer of Weights and Measures.....	2,600
Commissioner of Bridges	2,000
In City Council, April 1, 1924.	
Passed to be ordained.	

JAMES T. BARRETT, President.
Executive Department, April 4, 1924.
Approved, EDWARD W. QUINN, Mayor.
A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled
"Regulation of Traffic"
Be it ordained by the City Council of the City of Cambridge
as follows:
Section 15 of Article I is hereby further amended by strik-
ing out the word "easterly" and substituting in place thereof
the word "westerly."
As amended the section will read as follows:
Section 15. No vehicles shall be permitted to park on the
westerly side of Temple Street, between Massachusetts Avenue
and Austin Street.
In City Council, February 19, 1924.
Passed to be ordained.

DANIEL P. LEAHY, President Pro Tempore.
Executive Department, Feb. 21, 1924.
Approved, EDWARD W. QUINN, Mayor.
A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled
"Regulation of Traffic"

Be it ordained by the City Council of the City of Cambridge
as follows:

Article 1 is hereby amended by adding the following section:

Section 15. No vehicles shall be permitted to park on the
easterly side of Temple Street, between Massachusetts Avenue
and Austin Street.

In City Council, July 10, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, July 13, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled "Regula-
tion of Traffic."

Be it ordained by the City Council of the City of Cambridge
as follows:

Section 13 of Article 1 is hereby amended by adding be-
tween the words "on and Norfolk" the following words, "the
easterly side of." As amended the section will read:

Section 13. No vehicles shall be permitted to park on the
easterly side of Norfolk Street, between Massachusetts Avenue
and Austin Street, between 8 a. m. and midnight.

In City Council, July 10, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, July 13, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled,
"Regulation of Traffic"

Be it ordained by the City Council of the City of Cambridge
as follows:

Section 1 of Article VII is hereby amended by including in
the list of one-way streets the following:

Holyoke street, from Massachusetts Avenue in a southerly direction, parking permitted only on westerly side.

Linden Street, from Mt. Auburn Street in a northerly direction, parking permitted only on easterly side.

Plympton Street, from Memorial Drive in a northerly direction, parking permitted only on easterly side.

Approved, EDWARD W. QUINN, Mayor.

An Ordinance in Amendment of an Ordinance Entitled
"Auditing"

Be it ordained by the City Council of the City of Cambridge as follows:

Chapter 4 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended in Section 7 by striking out the last sentence thereof and inserting the following paragraphs:

Upon written request of the Head of the Department the Auditor may, with the approval in each instance of the Mayor, at any time make transfers not to exceed one hundred dollars (\$100.00) in any instance, from the appropriation for current expenses of one division of a department to the appropriation for current expenses of any other division of the same department.

He shall furnish the City Council on or before the 28th day of every month with a certified copy of every transfer made since the last report and such certificates of transfer shall be included in and made part of the records of the City Council meeting at which they are received, and published in the City Council Calendar.

In City Council, March 4, 1924.

Passed to be ordained as amended.

JAMES T. BARRETT, President.

Executive Department, March 7, 1924.

Approved, EDWARD W. QUINN, Mayor.

true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled, "Regulation of Traffic."

Be it ordained by the City Council of the City of Cambridge as follows:

Section 1 of Article VII is hereby amended by including in the list of one-way streets:

“Concord Avenue between Waterhouse Street and Arsenal Square in a westerly direction.”

In City Council, October 23, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, October 26, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled, “Duties and Salaries”

Be it ordained by the City Council of the City of Cambridge as follows:

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby further amended by striking out the following lines:

One Deputy Sealer of Weights and Measures who shall act as Inspector—\$1,800.

Two Deputy Sealers of Weights and Measures, each—\$1,750.

In City Council, November 20, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, November 23, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled “Streets”

Be it ordained by the City Council of the City of Cambridge as follows:

Section 27, Chapter 45, is amended by adding the following:

Bridges with Closed Hours

Between the hours of 4:45 and 7:45 a. m. and between the hours of 4:30 and 5:30 p. m., the draws in the bridges hereafter named shall not be required to be open on week days for the passage of any vessel, vessels, or other water-craft.

Across the Broad Canal—First Street Bridge, Third Street Bridge and Sixth Street Bridge.

In City Council, December 18, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, Dec. 21, 1923.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

An Ordinance in Amendment to an Ordinance entitled, "Traffic Regulations"

Be it ordained by the City Council of the City of Cambridge as follows:

Section 1 of Article VII is hereby amended by including in the list of one-way streets: "Upland Road, from Raymond Street to Huron Avenue, in a westerly and southerly direction."

In City Council, December 31, 1923.

Passed to be ordained.

JAMES T. BARRETT, President.

Executive Department, January 3, 1924.

Approved, EDWARD W. QUINN, Mayor.

A true copy, Attest: FREDERICK H. BURKE, City Clerk.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1924 inclusive)

James D. Green	From May,	1846,	to April,	1848
Sydney Willard	"	April,	1848,	to April, 1851
George Stevens	"	April,	1851,	to April, 1853
James D. Green	"	April,	1853,	to April, 1854
*Abraham Edwards	"	April,	1854,	to January, 1855
Zebina L. Raymond	"	January,	1855,	to January, 1856
John Sargent	"	January,	1856,	to January, 1860
†James D. Green	"	January,	1860,	to July 24, 1861
§Charles Theo. Russell	"	July 31,	1861,	to January, 1863
George C. Richardson..	"	January,	1863,	to January, 1864
Zebina L. Raymond.....	"	January,	1864,	to January, 1865
J. Warren Merrill	"	January,	1865,	to January, 1867
Ezra Parmenter	"	January,	1867,	to January, 1868
Charles H. Saunders	"	January,	1868,	to January, 1870
Hamlin R. Harding	"	January,	1870,	to January, 1872
Henry O. Houghton	"	January,	1872,	to January, 1873
Isaac Bradford	"	January,	1873,	to January, 1877
Frank A. Allen	"	January,	1877,	to January, 1878
Samuel L. Montague	"	January,	1878,	to January, 1880
James M. W. Hall.....	"	January,	1880,	to January, 1881
James A. Fox	"	January,	1881,	to January, 1885
William E. Russell	"	January,	1885,	to January, 1889
Henry H. Gilmore	"	January,	1889,	to January, 1891
Alpheus B. Alger	"	January,	1891,	to January, 1893
William A. Bancroft	"	January,	1893,	to January, 1897
Alvin F. Sortwell	"	January,	1897,	to January, 1899
Edgar R. Champlin	"	January,	1899,	to January, 1901
David T. Dickinson	"	January,	1901,	to January, 1902
John H. H. McNamee..	"	January,	1902,	to January, 1904
Augustine J. Daly	"	January,	1904,	to January, 1906
Charles H. Thurston	"	January,	1906,	to January, 1907
Walter C. Wardwell	"	January,	1907,	to April, 1909
William F. Brooks	"	April,	1909,	to April, 1911
J. Edward Barry	"	April,	1911,	to April, 1914
Timothy W. Good	"	April,	1914,	to Dec., 1918
Wendell D. Rockwood..	"	January,	1916,	to January, 1918
Edward W. Quinn	"	January,	1918,	to

*Municipal year changed. †Resigned. §First elected by the City Council.

PRESIDENTS OF THE BOARD OF ALDERMEN

888	Edward W. Hincks	1903	*John W. Coveney
889	John H. Corcoran	1903	Timothy W. Good
890	Alvin F. Sortwell	1904	John W. Coveney
891	William A. Bancroft	1905	J. Edward Barry
892	William A. Bancroft	1906	Charles H. Lake
893	John F. Fairbain	1907	Charles H. Lake
894	John G. Thorogood	1908	Edward B. James
893	John F. Fairbairn	1909	Edward B. James
896	John F. Fairbairn	1910	Edward B. James
897	Russell Bradford	1911	James T. Barrett
898	Russell Bradford	1912	James T. Barrett
899	Walter C. Wardwell	1913	Peter J. Nelligan
900	Walter C. Wardwell	1914	Peter J. Nelligan
901	George E. Saunders	1915	Peter J. Nelligan
902	James F. Aylward		

*John W. Coveney resigned March 10, 1903, and Timothy W. Good elected to the vacancy.

PRESIDENTS OF CITY COUNCIL

916	Edward J. Dunphy	1920	James T. Barrett
917	Edward J. Dunphy	1921	James T. Barrett
918	Dr. John P. Good	1922	James T. Barrett
919	James T. Barrett	1923	James T. Barrett
	1924	James T. Barrett	

PRESIDENTS OF THE COMMON COUNCIL

1846	*Isaac Livermore	1871	*Joseph H. Converse
1847	*John Sargent	1872	*Alvaro Blodgett
1848	*John C. Dodge	1873	*Alvaro Blodgett
1849	*Samuel P. Heywood		Resigned June 17
1850	*Samuel P. Heywood	1873	Francis H. Whitman
1851	*John S. Ladd		Elected June 17
1852	*John Sargent	1874	George F. Piper
1853	*John Sargent	1875	George F. Piper
1854	*John C. Dodge	1876	Frank A. Allen
1855	*Alanson Bigelow	1877	*Perez G. Porter
1856	*Ezra Ripley. Resigned	1878	*George S. Saunders
	January 31	1879	*George S. Saunders
1856	*George S. Saunders	1880	*Charles Walker
	Elected January 31	1881	*Charles Walker
1857	*George S. Saunders	1882	George H. Howard
1858	*James C. Fisk	1883	George H. Howard
1859	*James C. Fisk	1884	George H. Howard
1860	*Hamlin R. Harding	1885	Cornelius G. H. Bennink
1861	*Hamlin R. Harding	1886	John H. Corcoran
1862	*Jared Shepard.	1887	John H. Corcoran
	Resigned Sept. 17	1888	*Alvin F. Sortwell
1862	*Knowlton S. Chaffee	1889	*Edward A. Bingham
	Elected Sept. 24	1890	*Edward A. Bingham
1863	*George S. Saunders	1891	Edward C. Wheeler
1864	*George S. Saunders	1892	Herbert A. Chase
1865	*John S. March	1893	J. Henry Russell
1866	*John S. March	1894	Charles M. Conant
1867	*Marshall T. Bigelow	1895	*John L. Odiorne
1868	*Knowlton S. Chaffee	1896	*John L. Odiorne
	Resigned Feb. 4	1897	Albert S. Apsey
1868	*Henry W. Muzzey	1898	George S. Saunders
	Elected Feb. 4	1899	William F. Brooks
1869	*Henry W. Muzzey	1900	John D. Merrill
1870	*Joseph H. Converse	1901	John D. Merrill

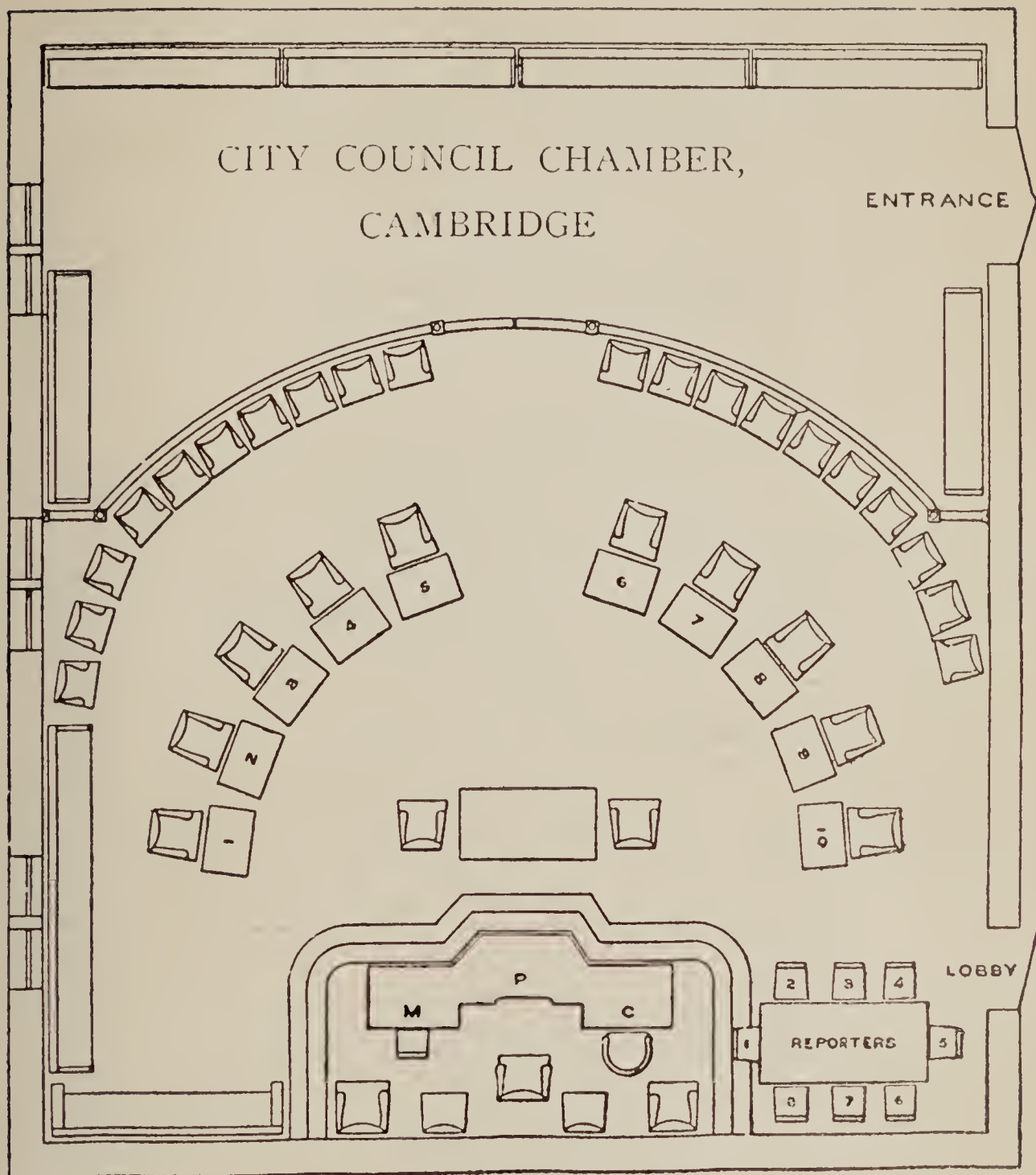
1902	*Thorndike Spalding	1909	Jesse W. Moreland
1903	Edward E. Clark	1910	Irving N. Linnell
1904	Harry N. Stearns	1911	Frederick H. Burke
1905	George A. Giles	1912	Timothy J. Horan
1906	George A. Giles	1913	John H. Lynch
1907	*Henry C. Stetson	1914	Frank J. Lehan
1907	*†Robert W. Hunter	1915	Arthur S. Browne
1908	Henry J. Winslow		

*Deceased.

†Elected to fill vacancy.

LEGAL HOLIDAYS

New Year's Day, January 1. Washington's Birthday, February 22. Patriots' Day, April 19. Memorial Day, May 30. Independence Day, July 4. Labor Day, September 1. Columbus Day, October 12. Thanksgiving Day, November 27, Christmas Day, December 25.



KEY TO CITY COUNCIL CHAMBER Cambridge, 1924

P—JAMES T. BARRETT, President

- | | |
|----------------------|-----------------------|
| 1. Councillor Mahler | 8. Councillor Collins |
| 2. " Leahy | 9. " Robart |
| 3. " Murphy | 10. " Cazmay |
| 4. " Curry | 11. " Drinkwater |
| 5. " Shea | 12. " Skilton |
| 6. " Coady | 13. " J. J. McCarthy |
| 7. " D. F. McCarthy | 14. " Bradbury |

Reporters

- | | |
|---|---|
| 1. James W. Bean, Boston Globe and Cambridge Chronicle. | 3. Edward J. Sennott, Cambridge Recorder. |
| 2. Harry J. Mahoney, Cambridge Sentinel. | 4. Eliza L. Carleton, Cambridge Tribune. |

CITY GOVERNMENT

Mayor

EDWARD W. QUINN
105 Fresh Pond Parkway

COUNCILLORS

President

JAMES T. BARRETT

James T. Barrett	97	Otis Street	At Large
Harold M. Bradbury	32	Rockingham Street ...	Ward 6
N. Russell Cazmay	8	Plympton Street	Ward 8
Francis D. Coady	464	Windsor Street	Ward 3
Daniel F. Collins	93	Gore Street	Ward 1
James E. Curry	101	Antrim Street	Ward 5
Arthur Drinkwater	993	Memorial Drive	Ward 9
Daniel P. Leahy	11	Montgomery Street ...	Ward 11
James E. Mahler	184	Harvard Street	Ward 4
Dennis F. McCarthy	41	Fifth Street	Ward 2
John J. McCarthy	31	Putnam Avenue	At Large
Timothy F. Murphy	23	Magee Street	Ward 7
Ralph W. Robart	12	Park Avenue	At Large
Charles H. Shea	65	Putnam Avenue	At Large
Horace A. Skilton	61	Garfield Street	Ward 10

Officers of the City Council

City Clerk

FREDERICK H. BURKE

Clerk of Committees

DANIEL J. TOOMEY

City Messenger

A. FRANK MONTGOMERY

Regular meetings on Tuesday evenings, at eight (8) o'clock.

DEPARTMENTS AND BOARDS

City Hall Telephone, 6800 University

EXECUTIVE DEPARTMENT

EDWARD W. QUINN, *Mayor*.

EDWARD A. COUNIHAN, *Mayor's Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 17 and 18, City Hall

CITY CLERK DEPARTMENT

FREDERICK H. BURKE, *City Clerk*.

THOMAS J. CONRICK, *Assistant City Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 8 and 9, City Hall

TREASURY DEPARTMENT

HENRY F. LEHAN, *City Treasurer and Collector of Taxes*

Office Hours: 8 a. m. to 2 p. m.

Office, Rooms 3 and 4, City Hall

AUDITING DEPARTMENT

CHARLES H. THURSTON, *City Auditor*.

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 1 and 2, City Hall

CLERK OF COMMITTEES DEPARTMENT

DANIEL J. TOOMEY, *Clerk of Committees*.

ALBERT T. DOYLE, *Assistant*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 16, City Hall

CITY MESSENGER DEPARTMENT

A. FRANK MONTGOMERY, *City Messenger*.HENRY P. CONROY, *Assistant*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 20, City Hall

LAW DEPARTMENT

PETER J. NELLIGAN, *City Solicitor*.JOHN W. LYONS, *Law Clerk*

Office Hours (at City Hall) : 8 a. m. to 12 m.

Office, Room 17, City Hall

Boston Office, 747 Tremont Building

Telephone 2260, Haymarket

ENGINEERING DEPARTMENT

LEWIS M. HASTINGS, *City Engineer*.THOMAS P. O'NEILL, *Supt. of Sewers*

Office Hours: 8 a. m. to 5 p. m.

Office, Rooms 30 and 31, City Hall

BUILDING DEPARTMENT

JEREMIAH F. DOWNEY, *Superintendent of Public Buildings and
Inspector of Buildings*WILLIAM D. COLLINS } *Building Inspectors*
C. EDWIN O'BRIEN }WILLIAM A. FORD, *Inspector of Plumbing*WILLIAM J. STANGER, *Inspector of Gas Fitting*DANIEL F. OWENS, *Inspector of Elevators*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 28, City Hall

STREET DEPARTMENT

EDWARD J. DUNPHY, *Superintendent of Streets*JOHN H. HOLT, *Clerk*

Office Hours: 8 a. m. to 4 p. m.
Office, Room 12, City Hall

HEALTH DEPARTMENT

Board of Health

JOSEPH M. WADDEN, M. D., <i>Chairman</i>	Term, three years
JOSEPH M. WADDEN, M. D.	Term expires 1925
ELIE H. LA PIERRE,	Term expires 1926
EDMUND J. BRANDON	Term expires 1927

SIMON B. KELLEHER, M. D., *Medical Inspector and Superintendent of Tuberculosis Hospital*

JOHN D. CROWLEY, *Clerk*

WALTER C. FEELEY, M. D., *Bacteriologist*

WILLIAM A. NOONAN, M. D., *Inspector of Milk and Vinegar*

JOSEPH L. JOHNSON, *Inspector of Provisions*

Office Hours: 8 a. m. to 4 p. m.
Rooms 25, 26 and 27, City Hall

POLICE DEPARTMENT

JOHN J. MCBRIDE, *Chief*
Telephone, 423

FIRE DEPARTMENT

JAMES M. CASEY
Telephone 109

ASSESSORS' DEPARTMENT

JAMES J. CASEY, <i>Chairman</i>	BERNARD F. FALLON, <i>Secretary</i>
Term, four years	

BERNARD F. FALLON	Term expires 1927
JOHN C. HAVERTY	Term expires 1927
JAMES J. CASEY	Term expires 1925

CARRIE A. ESTES, RUTH E. MCGUIGAN, LORETTA F. CROWE,
ISABEL M. KIELY, *Clerks*

Office Hours: 8 a. m. to 4 p. m.
Office, Rooms 21 and 22, City Hall

CITY ELECTRICAL DEPARTMENT

TIMOTHY C. O'HEARN, *City Electrician*

JAMES H. MCALLISTER, *Assistant City Electrician*

Office Hours: 8 a. m. to 4 p. m.
Office, Central Fire Alarm, Inman Square Building
Telephone 125

INSPECTOR OF ANIMALS DEPARTMENT

DAVID L. BOLGER, M. D. V., *Inspector of Animals*

Residence, 35 Ash Street Telephone 3550
(No Office or Hours)

BRIDGE DEPARTMENT

FRANCIS J. SMITH, *Bridge Commissioner*

Office Hours, 8 a. m. to 4 p. m.
Office, Room 12, City Hall

SEALER OF WEIGHTS AND MEASURES DEPARTMENT

FELIX C. MCBRIDE, *Sealer*

HUGH H. HEALEY, *Deputy Sealer and Inspector*

EMERY T. MORRIS and JOSEPH O'NEIL, *Deputy Sealers*

Office Hours: Fridays, 8 a. m. to 4 p. m.
Saturdays, 8 a. m. to 12 m.
Office, Brattle Square Building Telephone 509-W

CITY PHYSICIAN

WILLIAM G. BROUSSEAU

Residence, 2343 Massachusetts Avenue Telephone 1285
Office, Central Square Building
Office Hours: Daily, 9 to 11 a. m.
Telephone 660

FENCE VIEWERS

LEWIS M. HASTINGS, City Hall JEREMIAH F. DOWNEY, City Hall

CAMBRIDGE PLANNING BOARD

WALTER F. EARLE, *Chairman*

HELEN CABOT ALMY.....Term expires 1924
 JOSEPH AUTHIER.....Term expires 1925
 BENJAMIN ROSEMAN.....Term expires 1926
 WALTER F. EARLETerm expires 1927
 ARTHUR C. COMEY.....Consultant
 CHARLES W. KILLAM.....Term expires 1929

SCHOOL COMMITTEE

Mayor, EDWARD W. QUINN, *Chairman*

CHARLES F. HURLEY, *Vice-Chairman*

MRS. JESSIE W. BROOKS, 10 Linnaean Street..Term expires 1925
 CHARLES F. J. McCUE, 10 Prentiss Street...Term expires 1925
 MRS. FLORENCE L. WHITMAN, 23 Everett St...Term expires 1925
 JAMES S. CASSEDY, 356 Harvard Street.....Term expires 1927
 CHARLES F. HURLEY, 5 Chauncey Terrace...Term expires 1927
 FRANCIS J. ROCHE, 293 Broadway.....Term expires 1927

HELEN R. BROSDAHAN, *Secretary*

Business Agent

CONSTANTINE J. CHURCH

Superintendent of Schools

MICHAEL E. FITZGERALD

Assistant Superintendent and Director of Continuation School

JAMES DUGAN

Superintendent of School Buildings and Grounds

JOHN J. ROACH

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 13, 14 and 15, City Hall

CITY HOSPITAL DEPARTMENT

*Trustees of Cambridge City Hospital*CHARLES S. CAHILL, *Chairman*

FRANK F. ROGERS.....	Term expires	1925
JOHN J. QUINLAN.....	Term expires	1926
CHARLES S. CAHILL.....	Term expires	1927
JOHN H. HURLEY.....	Term expires	1928
ISAAC MCLEAN.....	Term expires	1929

CEMETERY DEPARTMENT

Cemetery Commissioners

THOMAS E. WILLIAMS, *Chairman*

Term, Three Years

JEREMIAH J. SULLIVAN.....	Term expires	1925
LAWRENCE E. SULLIVAN.....	Term expires	1925
THOMAS E. WILLIAMS.....	Term expires	1926
EBEN H. GOOGINS.....	Term expires	1926
JOHN MCKENZIE.....	Term expires	1927
GEORGE T. QUINN.....	Term expires	1927

Clerk of the Board

EDWARD F. SULLIVAN

Office, Room 23, City Hall

Superintendent of the Cemetery

THOMAS J. CAVANAGH

Clerk of the Cemetery

GREGORY L. GALLAGHER

Office Hours: at Cemetery, 8 a. m. to 5 p. m.

Office at Cemetery on Coolidge Avenue

Telephone 5

*Person to Cause to be Properly Interred the Bodies of Soldiers
and Sailors*

EDWARD F. SULLIVAN

Office, Room 23, City Hall

PUBLIC LIBRARY DEPARTMENT

*Trustees of Cambridge Public Library*JOHN A. BUTLER, *President*

For One Year

CHARLES F. J. McCUE of School Committee

Citizens at Large, Term, Three Years

EDWARD REDSTONE.....Term expires 1925

ALBERT E. LYNCH.....Term expires 1925

JOHN A. BUTLER.....Term expires 1926

NELLIE F. CROWLEY.....Term expires 1926

ROBERT E. YOUNG.....Term expires 1927

EDWARD P. COLLIER.....Term expires 1927

NELLIE F. CROWLEY, *Secretary* ALBERT E. LYNCH, *Treasurer*T. HARRISON CUMMINGS, *Librarian*

Library open: 9 a. m. to 9 p. m. Reading Room: 9 a. m. to 9 p. m.

Sunday, 2 to 9 p. m.

Office at Library Building, Broadway, Irving and

Trowbridge Streets

Telephone 610

WATER WORKS DEPARTMENT

*Cambridge Water Board*JAMES J. SCULLY, *President*

Term, Five Years

JOHN P. CONROY.....Term expired 1922

JOSEPH E. DOHERTY.....Term expires 1924

BERNARD E. McDERMOTT.....Term expires 1925

JAMES J. SCULLY.....Term expires 1926

TIMOTHY W. GOOD, *Superintendent of Water Works*HARRY L. LINCOLN, *Chief Clerk*

Office Hours: 8 a. m. to 4 p. m.

Office, Rooms 5 and 6, City Hall

EMPLOYMENT DEPARTMENT

MICHAEL J. MAHONEY, *Superintendent*

ELECTION COMMISSION

J. FRANK FACEY, *Chairman*

Term, Four Years

CHARLES J. WOOD.....	Term expires 1923
JOHN P. MCCORMACK.....	Term expires 1924
HARRY A. PENNIMAN.....	Term expires 1925
J. FRANK FACEY.....	Term expires 1926

HARRY A. PENNIMAN, *Secretary*
Office at Central Square Building
Telephone 10727

PARK DEPARTMENT

*Park Commissioners*CARROLL W. DOTEN, *Chairman*

Term, Five Years

STEPHEN H. HARRINGTON.....	Term expires 1925
WAYLAND M. MINOT.....	Term expires 1925
JOHN B. DORE.....	Term expires 1926
MRS. HELEN C. ALMY.....	Term expires 1926
CARROLL W. DOTEN.....	Term expires 1927
REV. JOHN J. RYAN.....	Term expires 1927
MICHAEL SCANNELL.....	Term expires 1928
MRS. JESSIE W. BROOKS.....	Term expires 1929
JEREMIAH J. COUGHLAN.....	Term expires 1929

JOHN F. DONNELLY, *General Superintendent*STEPHEN H. MAHONEY, *Superintendent of Recreation*ROSE E. MANNING, *Secretary*

Office Hours, 8 a. m. to 4 p. m.
Office, Room 11, City Hall

SINKING FUND DEPARTMENT

*Commissioners of the Sinking Fund*GEORGE G. WRIGHT, *Chairman* .

Term, Three Years

DANIEL CRONIN.....	Term expires	1925
FRANCIS J. CARNEY.....	Term expires	1925
WILLIAM H. REARDON, JR.....	Term expires	1926
ROBERT W. KNOWLES.....	Term expires	1926
GEORGE G. WRIGHT.....	Term expires	1927
GUSTAVUS GOEPFER.....	Term expires	1927
WILLIAM J. HOPKINS, <i>Secretary</i>	HENRY F. LEHAN, <i>Treasurer</i>	

BOARD OF PUBLIC WELFARE

BERNARD B. WELCH, *Chairman*

Term, Five Years

GEORGE P. O'BRIEN.....	Term expires	1924
EDMUND A. WHITMAN.....	Term expires	1926
LEOPOLD BARTEL.....	Term expires	1926
BERNARD B. WELCH.....	Term expires	1927
GEORGE D. COLGAN.....	Term expires	1927
CHARLES J. WILLIAMS.....	Term expires	1928

JAMES E. FINNEGAN, *Secretary*JOHN T. SHEA, *Superintendent of City Home*

Office Hours, at Central Square Building, 8 a. m. to 4 p. m.

Telephones: City Home, 0189. Office, 0660

BOARD OF APPEAL

CLARENCE H. BLACKALL, *Chairman*

Term, Three Years

CLARENCE H. BLACKALL (Architect).....	Term expires	1926
JOHN B. BYRNE (Master Builder).....	Term expires	1925
HARRY N. STEARNS (Attorney).....	Term expires	1927

BOARD OF LICENSE COMMISSIONERS

WILLIAM F. BROOKS, *Chairman*

Term expires 1925

JAMES M. CASEY, Chief of the Fire Department

JOHN J. MCBRIDE, Chief of Police Department

CITY MISSIONARY

BERNARD J. BROGAN

AGENT FOR COMMITTEE ON SOLDIERS' AID

EDWARD F. SULLIVAN

WILLIAM F. BOYLE, JAMES T. COX, *Investigators*

Office Hours: 8 a. m. to 4 p. m.

Office, Room 23, City Hall

TRUSTEES OF THE DOWSE INSTITUTE

FRANCIS G. PEABODY, *President*EDWARD W. QUINN, Mayor, *ex-officio*JAMES T. BARRETT, President of City Council, *ex-officio*

GEORGE HOWLAND COX

JOSEPH H. BEALE, JR.

FRANCIS G. PEABODY

JOSEPH H. BEALE, JR., *Secretary and Treasurer*

TRUSTEES OF THE SANDERS TEMPERANCE FUND

EDWARD W. QUINN, Mayor

JAMES T. BARRETT, *President of City Council*FREDERICK H. BURKE, *City Clerk**Ex-officiis*

TRUSTEES OF THE BRIDGE CHARITABLE FUND

EDWARD W. QUINN, *Mayor*

JAMES T. BARRETT, *President of City Council*

BERNARD B. WELCH, *Chairman of Board of Public Welfare*
Ex-officiis

CIVIL SERVICE—LABOR DIVISION

HARRY L. LINCOLN, *Registration Clerk*

Office Hour: 4 p. m. daily
Except Saturday

STANDING COMMITTEES OF THE CITY COUNCIL

Americanization and Education. Councillors Drinkwater, Leahy, Murphy, Robart, Cazmay.

Bonds. Councillors Murphy, Drinkwater, D. J. McCarthy.

City Engineering. Councillors D. J. McCarthy, Murphy, Leahy.

City Planning. Councillors Cazmay, Collins, D. J. McCarthy, Drinkwater, Shea.

Claims. Councillors D. J. McCarthy, Coady, Mahler, Curry, Drinkwater.

Elections and Printing. Councillors Shea, Skilton, Leahy, Collins, Murphy.

Finance. President Barrett, Councillors Shea, J. J. McCarthy, Bradbury, Coady, Mahler, Skilton, Drinkwater, Leahy, Cazmay, Collins, Curry, D. J. McCarthy, Murphy, Robart.

Health. Councillors Drinkwater, Murphy, Skilton.

Industrial Development. Councillors Shea, Collins, D. J. McCarthy, Drinkwater, Skilton.

Legislative Matters. Councillors Curry, Bradbury, Leahy, Mahler, Shea.

Licenses. Councillors Mahler, Bradbury, Curry, Skilton, Leahy.

Military Affairs. Councillors Robart, Drinkwater, Mahler, Curry, Leahy.

Ordinances. President Barrett, Councillors Skilton, Cazmay, Shea, Robart, Coady, Bradbury, Curry, Collins, Drinkwater, Leahy, Mahler, D. R. McCarthy, J. J. McCarthy, Murphy.

Parks and Cemeteries. Councillors Collins, Coady, Shea, Murphy, Skilton.

Public Celebrations. Councillors Skilton, Coady, Collins, J. J. McCarthy, Curry, Leahy, D. J. McCarthy.

Public Property and Public Institutions. Councillors J. J. McCarthy, Bradbury, Coady, Robart, Skilton.

Public Safety. Councillors Shea, Skilton, Leahy, Cazmay, Collins.

Public Service. Councillors Leahy, J. J. McCarthy, Bradbury, Mahler, Shea.

Roads and Bridges. Councillors Bradbury, Mahler, Coady, Robart, Collins, Cazmay, J. J. McCarthy.

Rules and Orders. Councillors Collins, Curry, Drinkwater, Mahler, Skilton.

Soldiers' Aid. Councillors Robart, Collins, Curry, D. F. McCarthy, Drinkwater.

Water Supply. Councillors J. J. McCarthy, Mahler, D. F. McCarthy, Coady, Skilton.

Wires and Lamps. Councillors Coady, Collins, Curry, J. J. McCarthy, Skilton.

CONSTABLES

(With power to serve civil process)

Daniel O'Brien	John O. Laing
Edward F. Nye, Jr.	Francis B. Whouley
Bernard J. Brogan	John H. Conlin, Jr.
Charles J. McGee	John J. Allen
James M. Shannon	James P. Dailey
John Abramowicz	William J. Dinan
Gilmore B. Creelman	Emanuel A. Miller
Albert Gertson	Joseph E. F. Le Gendre
Charles E. McCarthy	Elie J. Valliere
George F. Cazmay	John A. Duggan
Solomon Haag	John T. Sullivan
Floyd B. Morse	Mathew J. Kostant
Manuel F. Ricardo	John F. Power
Charles R. Chaplin	Charles W. Clark

(Without power to serve civil process)

Jeremiah F. McDermott	Thomas K. O'Connor
Robert M. Beck	James H. Shuckrowe
Edward J. Ferris	John J. Sullivan
Deming E. Badger	Daniel C. Sweeney
John Tukey	James T. Twohig
James Mahady	Edward F. Walsh
Michael Cangiano	Edward F. Wadden
William Ward	Frank H. Mulligan
Timothy J. Shine	William J. Martin
Michael Twomey	Arthur Stewart
Maurice Keezer	Andrew Batchelor
Patrick A. Berkeley, Jr.	Timothy E. Murphy
J. Joseph Corcoran	Timothy J. Horan
William J. Cogan	Hugh H. Keenan
Patrick Carroll	Joseph J. Keough
Frank E. Donelan	Charles R. Apted
George Dunn	William H. Gray
Eugene M. Flanagan	Harry A. Sawyer
James J. Foley	Charles J. Ingalls
Walter Foster	George T. Duckens
James P. Reilly	Robert J. Buchanan

Edward Butler
 John Connolly
 William Gramey
 Charles LaRochelle
 Mortimer Mahoney
 John McNamara
 James O'Toole
 James Reddin
 Francis Skinner
 Dennis White
 Andrew Wilson
 Michael J. Regan
 Thomas J. Mullen
 William A. Donovan
 Lester Proverb
 Dennis J. Leahy
 Arthur F. Dailey
 Thomas F. Cosgrove
 John B. Griffin
 James A. Gorman
 Joseph L. Hooley
 Thomas A. Hughes
 Dennis F. Hurley
 Guy E. Henderson
 Samuel Johanson
 John J. Kelleher
 William H. Lertora
 Hugh J. Mellen
 John P. Nelligan

Manuel F. Medeiros
 Joseph Keezer
 John W. Jefferson
 Joseph J. Quinn
 William O'Brien
 Timothy A. Callaghan
 John L. McNally
 Guy E. Huse
 Charles R. Apted
 Alfred S. Black
 Charles L. Chantell
 Lewis R. Gardiner
 Frederick D. Gardner
 John T. Keane
 Henry Levy
 Michael J. Sullivan
 Alfred O. Tirrell
 Edwin G. Whalen
 Alfred T. Black
 Elie J. Valliere
 Max Keezer
 William A. Donovan
 Michael Cunningham
 Frank Noon
 Edward J. Murphy
 Ernest H. Ricker
 Patrick J. McGovern
 Walter G. Lambert

PERSON TO RECEIVE INFORMATION OF DAMAGE BY
 DOGS

(Ch. 102, Sect. 151, Revised Laws)

JOHN J. McBRIDE

POUND KEEPERS

JAMES F. GRAY

JOHN J. TOOMEY

COMMITTEE FOR THE PRESERVATION OF FISH

THOMAS P. O'NEIL

INSPECTORS OF JUNK SHOPS

Pawnbrokers' Shop and Second-Hand Stores and Dealers

JOHN J. McBRIDE

PATRICK J. HURLEY

JAMES E. MURRAY

MICHAEL J. BRENNAN

JAMES M. KEANY

JOHN J. CANNEY

HAY WEIGHER

JOHN N. BOLSTER

MEASURERS OF GRAIN

EMERY T. MORRIS

FELIX C. McBRIDE

HUGH H. HEALEY

JOSEPH O'NEIL

SURVEYOR OF MECHANICS' WORK

CHARLES A. MASON

KEEPER OF LOCK-UPS

JOHN J. McBRIDE

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW

WILLIAM E. WILSON

PUBLIC WEIGHERS

Edward J. Barron

Edward A. Mahoney

William A. Cheyne

William Maloney

Dennis T. Coffey

Melvin McFarland

Ernest Croake
Clyde E. Crozier
A. S. Blanchard
Alexander L. Cunha
Peter Davis
Leonard Day
Alexander S. Ford
Thomas Gibbons
William H. Delaney
John E. Fay
Leslie F. Rogers
John F. Reilly
Manuel M. Rogers
Alexander Russell
John M. Thayer
John J. Toomey
James B. Harris
Robert Holden
John H. Holt
James Knowles
Neil MacDonald
Martin McMahon

Harry Meehan
August Pawlowski
Lawrence J. Toomey
James J. Travers
William H. Tupper
William Varney
James A. Whalen
Philip C. Galvin
Charles A. McLaughlin
Albert Miner
Thomas Gibson
Edward J. Barron
Hugh F. Kelley
Anthony Palladano
Patrick O'Connell
Otto Otterson
Arthur A. Hongaard
John O'Neill
Joseph P. Quinn
A. Jerome Thorner
Fred O. Williams

Votes Cast
at
Municipal Election
November 6, 1923

MUNICIPAL ELECTION, NOVEMBER 6, 1923

MAYOR					
		WHOLE NUMBER OF BALLOTS CAST	Godfrey L. Cabot 16 Highland St.	Edward W. Quinn 105 Fresh Pd. P'k'y	Blanks
Ward 1	Prec. 1.....	280	16	257	7
	Prec. 2.....	412	43	367	2
	Totals.....	692	59	624	9
Ward 2	Prec. 1.....	539	28	493	18
	Prec. 2.....	493	18	470	5
	Totals.....	1,032	46	963	23
Ward 3	Prec. 1.....	331	21	303	7
	Prec. 2.....	340	25	313	2
	Prec. 3.....	519	47	466	6
	Prec. 4.....	475	43	428	4
	Totals.....	1,665	136	1,510	19
Ward 4	Prec. 1.....	253	37	212	4
	Prec. 2.....	573	95	473	5
	Prec. 3.....	495	97	398	0
	Prec. 4.....	671	250	417	4
	Totals.....	1,992	479	1,500	13
Ward 5	Prec. 1.....	637	68	562	7
	Prec. 2.....	531	129	393	9
	Prec. 3.....	676	166	503	7
	Prec. 4.....	820	537	279	4
	Prec. 5.....	650	315	332	3
	Totals.....	3,314	1,215	2,069	30
Ward 6	Prec. 1.....	332	104	225	3
	Prec. 2.....	544	261	281	2
	Prec. 3.....	712	224	479	9
	Prec. 4.....	1,003	453	542	8
	Totals.....	2,591	1,042	1,527	22

MAYOR—Continued

		WHOLE NUMBER OF BALLOTS CAST	Godfrey L. Cabot 16 Highland St.	Edward W. Quinn 105 Fresh Pd. H'wy	Blanks
Ward 7	Prec. 1.....	770	307	455	8
	Prec. 2.....	634	184	444	6
	Prec. 3.....	903	541	353	9
	Prec. 4.....	645	228	412	5
	Totals.....	2,952	1,260	1,664	28
Ward 8	Prec. 1.....	524	371	150	3
	Prec. 2.....	754	309	432	13
	Prec. 3.....	879	128	736	15
	Prec. 4.....	735	512	218	5
	Totals.....	2,892	1,320	1,536	36
Ward 9	Prec. 1.....	719	579	131	9
	Prec. 2.....	703	475	225	3
	Prec. 3.....	585	352	225	8
	Prec. 4.....	458	105	351	2
	Prec. 5.....	716	324	383	9
	Prec. 6.....	981	314	661	6
	Totals.....	4,162	2,149	1,976	37
Ward 10	Prec. 1.....	689	443	243	3
	Prec. 2.....	617	397	217	3
	Prec. 3.....	840	162	674	4
	Prec. 4.....	590	478	109	3
	Totals.....	2,736	1,480	1,243	13
Ward 11	Prec. 1.....	570	240	326	4
	Prec. 2.....	551	188	358	5
	Prec. 3.....	679	99	577	3
	Prec. 4.....	629	50	565	14
	Prec. 5.....	564	98	459	7
	Totals.....	2,993	675	2,285	33
Grand Totals.....		27,021	9,861	16,897	263

ASSESSORS

		WHOLE NUMBER OF BALLOTS CAST	Frederick N. Balsor 33 Antrim St.	Bernard F. Fallon 71 Chestnut St.	John C. Haverty 43 Fayette St.	Sarah Wambaugh 22 Berkeley St.	Blanks
Ward 1	Prec. 1.....	280	21	187	199	0	153
	Prec. 2.....	412	69	283	324	0	148
	Totals.....	692	90	470	523	0	301
Ward 2	Prec. 1.....	539	70	345	407	0	256
	Prec. 2.....	493	47	356	393	0	190
	Totals.....	1,032	117	701	800	0	446
Ward 3	Prec. 1.....	331	48	210	245	0	159
	Prec. 2.....	340	56	228	248	0	148
	Prec. 3.....	519	92	332	390	0	224
	Prec. 4.....	475	75	330	370	0	175
	Totals.....	1,665	271	1,100	1,253	0	706
Ward 4	Prec. 1.....	253	37	171	177	0	121
	Prec. 2.....	573	131	370	436	0	209
	Prec. 3.....	495	104	319	354	0	213
	Prec. 4.....	671	227	401	424	0	290
	Totals.....	1,992	499	1,261	1,391	0	833
Ward 5	Prec. 1.....	637	80	433	550	0	211
	Prec. 2.....	531	114	342	424	0	182
	Prec. 3.....	676	145	432	530	0	245
	Prec. 4.....	820	355	486	469	0	330
	Prec. 5.....	650	182	416	435	0	267
	Totals.....	3,314	876	2,109	2,408	0	1,235
Ward 6	Prec. 1.....	332	107	214	204	0	139
	Prec. 2.....	544	211	322	300	0	255
	Prec. 3.....	712	158	518	508	0	240
	Prec. 4.....	1,003	337	709	600	0	360
	Totals.....	2,591	813	1,763	1,612	0	994

ASSESSOR—Continued

		WHOLE NUMBER OF BALLOES CAST	Frederick N. Balsor 33 Antrim St.	Bernard F. Fallon 71 Chestnut St.	John C. Haverly 43 Fayette St.	Sarah Wambaugh 22 Berkeley St.	Blanks
Ward 7	Prec. 1.....	770	201	497	510	0	332
	Prec. 2.....	634	139	388	429	0	312
	Prec. 3.....	903	373	473	478	0	482
	Prec. 4.....	645	190	419	389	0	292
	Totals.....	2,952	903	1,777	1,806	0	1,418
Ward 8	Prec. 1.....	524	220	317	290	0	221
	Prec. 2.....	754	243	434	495	0	336
	Prec. 3.....	879	104	621	658	0	375
	Prec. 4.....	735	288	430	421	0	331
	Totals.....	2,892	855	1,802	1,864	0	1,263
Ward 9	Prec. 1.....	719	290	450	395	0	303
	Prec. 2.....	703	252	430	393	0	331
	Prec. 3.....	585	164	381	359	1	265
	Prec. 4.....	458	89	337	336	0	154
	Prec. 5.....	716	214	487	491	0	240
	Prec. 6.....	981	200	730	718	0	314
	Totals.....	4,162	1,209	2,815	2,692	1	1,607
Ward 10	Prec. 1.....	689	263	444	389	0	282
	Prec. 2.....	617	203	395	366	0	270
	Prec. 3.....	840	132	619	660	0	269
	Prec. 4.....	590	248	355	282	0	295
	Totals.....	2,736	846	1,813	1,697	0	1,116
Ward 11	Prec. 1.....	570	144	414	394	0	188
	Prec. 2.....	551	128	381	383	0	210
	Prec. 3.....	679	94	507	529	0	228
	Prec. 4.....	629	85	459	462	0	252
	Prec. 5.....	564	103	397	430	0	198
	Totals.....	2,993	554	2,153	2,198	0	1,076
Grand Totals.....		27,021	7,033	17,769	18,244	1	10,995

SCHOOL COMMITTEE—FOUR YEARS

			WHOLE NUMBER OF BALLOTS CAST	James S. Cassidy 336 Harvard St.	Charles F. Hurley 1218 Mass. Ave.	John D. Lynch 20 Fairfield St.	Walter Dorsey McClane 38 Essex St.	Francis J. Roche 293 Broadway	Camelia Cameron 5 Irving St.	Blanks
Wd. 1	Pr. 1....	280	101	178	143	15	145	0	258	
	Pr. 2....	412	175	247	210	43	246	0	315	
	Totals....	692	276	425	353	58	391	0	573	
Wd. 2	Pr. 1....	539	188	337	261	43	295	0	493	
	Pr. 2....	493	185	359	234	39	298	0	364	
	Totals....	1,032	373	696	495	82	593	0	857	
Wd. 3	Pr. 1....	331	126	214	160	21	198	0	274	
	Pr. 2....	340	129	201	124	28	212	0	326	
	Pr. 3....	519	247	317	227	62	326	0	378	
	Pr. 4....	475	191	303	211	74	328	0	318	
	Totals....	1,665	693	1,035	722	185	1,064	0	1,296	
Wd. 4	Pr. 1....	253	110	149	102	29	161	0	208	
	Pr. 2....	573	281	307	240	105	395	0	391	
	Pr. 3....	495	223	265	167	125	342	0	363	
	Pr. 4....	671	319	356	198	232	430	0	478	
	Totals....	1,992	933	1,077	707	491	1,328	0	1,440	
Wd. 5	Pr. 1....	637	278	373	327	66	439	0	428	
	Pr. 2....	531	219	264	206	108	372	0	424	
	Pr. 3....	676	349	412	213	118	469	0	467	
	Pr. 4....	820	441	366	188	387	474	0	604	
	Pr. 5....	650	350	338	158	236	423	0	445	
	Totals....	3,314	1,637	1,753	1,092	915	2,177	0	2,368	
Wd. 6	Pr. 1....	332	165	194	122	90	202	0	223	
	Pr. 2....	544	289	278	181	202	329	0	353	
	Pr. 3....	712	318	403	254	170	430	0	561	
	Pr. 4....	1,003	496	491	284	343	582	0	813	
	Totals....	2,591	1,268	1,366	841	805	1,543	0	1,950	

SCHOOL COMMITTEE—FOUR YEARS—Continued

		WHOLE NUMBER OF BALLOTS CAST	James S. Cassidy 336 Harvard St.	Charles F. Hurley 1218 Mass. Ave.	John D. Lynch 20 Fairfield St.	Walter Dorsey McClane 38 Essex St.	Francis J. Roche 293 Broadway	Camelia Cameron 5 Irving St.	Blanks
Wd. 7	Pr. 1....	770	365	420	260	242	425	0	598
	Pr. 2....	634	254	364	225	219	356	0	484
	Pr. 3....	903	409	368	183	458	438	0	853
	Pr. 4....	645	284	363	217	202	370	0	499
	Totals....	2,952	1,312	1,515	885	1,121	1,589	0	2,434
Wd. 8	Pr. 1....	524	343	194	99	269	344	0	323
	Pr. 2....	754	354	368	230	250	477	0	583
	Pr. 3....	879	327	601	354	137	528	0	690
	Pr. 4....	735	380	298	144	366	415	0	602
	Totals....	2,892	1,404	1,461	827	1,022	1,764	0	2,198
Wd. 9	Pr. 1....	719	440	270	126	403	445	0	473
	Pr. 2....	703	406	305	146	350	462	0	440
	Pr. 3....	585	300	259	155	243	385	1	412
	Pr. 4....	458	169	358	145	86	291	0	325
	Pr. 5....	716	411	404	234	226	453	0	420
	Pr. 6....	981	520	603	380	288	636	0	516
	Totals....	4,162	2,246	2,199	1,186	1,596	2,672	1	2,586
Wd. 10	Pr. 1....	689	368	308	172	326	390	0	503
	Pr. 2....	617	299	311	237	260	344	0	400
	Pr. 3....	840	342	580	421	163	578	0	436
	Pr. 4....	590	320	242	111	327	329	0	441
	Totals....	2,736	1,329	1,441	941	1,076	1,641	0	1,780
Wd. 11	Pr. 1....	570	283	322	265	174	322	0	344
	Pr. 2....	551	210	315	292	145	313	0	378
	Pr. 3....	679	195	424	464	97	425	0	432
	Pr. 4....	629	162	355	498	46	423	0	403
	Pr. 5....	564	182	351	416	82	330	0	331
	Totals....	2,993	1,032	1,767	1,935	544	1,813	0	1,888
Grand Totals....		27,021	12,503	14,735	9,984	7,895	16,575	1	19,370

SCHOOL COMMITTEE—TWO YEARS

			WHOLE NUMBER OF BALLOTS CAST	Jessie W. Brooks 10 Linnaean St.	Patrick J. Delaney 42 Amory St.	Charles F. J. McCue 10 Prentiss St.	Edward H. Redstone 46 Mt. Vernon St.	Joseph M. Stokes 1298 Cambridge St.	Florence Lee Whitman 23 Everett St.	Blanks
Wd. 1	Pr. 1..	281	53	168	114	23	178	30	277	
	Pr. 2..	412	102	262	183	47	238	74	330	
	Totals..	693	155	430	297	70	416	104	607	
Wd. 2	Pr. 1..	539	101	342	210	32	361	79	492	
	Pr. 2..	493	69	321	210	32	339	50	458	
	Totals..	1,032	170	663	420	64	700	129	950	
Wd. 3	Pr. 1..	331	58	199	130	32	230	40	304	
	Pr. 2..	339	71	178	132	33	195	50	358	
	Pr. 3..	519	100	320	234	45	331	84	443	
	Pr. 4..	476	111	254	230	46	272	84	431	
	Totals..	1,665	340	951	726	156	1,028	258	1,536	
Wd. 4	Pr. 1..	253	68	154	115	26	107	43	246	
	Pr. 2..	573	183	337	282	94	242	165	416	
	Pr. 3..	495	170	251	209	88	191	140	436	
	Pr. 4..	671	288	277	297	173	219	261	498	
	Totals..	1,992	709	1,019	903	381	759	609	1,596	
Wd. 5	Pr. 1..	638	144	428	285	61	367	140	489	
	Pr. 2..	531	170	304	234	83	220	152	430	
	Pr. 3..	676	260	322	337	114	324	233	438	
	Pr. 4..	820	503	163	344	390	182	529	349	
	Pr. 5..	650	328	211	287	233	209	332	350	
	Totals..	3,315	1,405	1,428	1,487	881	1,302	1,386	2,056	
Wd. 6	Pr. 1..	332	137	150	139	86	99	134	251	
	Pr. 2..	544	287	191	250	175	151	279	299	
	Pr. 3..	712	334	299	352	152	245	255	499	
	Pr. 4..	1,002	608	280	453	305	283	500	577	
	Totals..	2,590	1,366	920	1,194	718	778	1,168	1,626	

SCHOOL COMMITTEE—TWO YEARS—Continued

			WHOLE NUMBER OF BALLOTS CAST	Jessie W. Brooks 10 Linnaean St.	Patrick J. Delaney 42 Amory St.	Charles F. J. McCue 10 Prentiss St.	Edward H. Redstone 46 Mt. Vernon St.	Joseph M. Stokes 1298 Cambridge St.	Florence Lee Whitman 23 Everett St.	Blanks
Wd. 7	Pr. 1..	770	350	281	364	236	227	308	544	
	Pr. 2..	634	210	309	266	122	212	173	610	
	Pr. 3..	904	471	189	334	422	205	515	576	
	Pr. 4..	645	301	236	320	163	194	259	462	
	Totals..	2,953	1,332	1,015	1,284	943	838	1,255	2,192	
Wd. 8	Pr. 1..	523	363	83	244	228	74	372	205	
	Pr. 2..	754	340	255	349	250	246	352	470	
	Pr. 3..	879	261	442	474	124	305	191	840	
	Pr. 4..	735	431	116	273	383	142	500	360	
	Totals..	2,891	1,395	896	1,340	985	767	1,415	1,875	
Wd. 9	Pr. 1..	719	527	78	246	434	95	569	208	
	Pr. 2..	703	428	163	292	337	127	444	318	
	Pr. 3..	585	351	178	236	234	131	335	290	
	Pr. 4..	457	240	225	233	88	127	138	320	
	Pr. 5..	716	373	243	370	236	200	366	360	
	Pr. 6..	981	454	450	497	271	335	388	548	
	Totals..	4,161	2,373	1,337	1,874	1,600	1,015	2,240	2,044	
Wd. 10	Pr. 1..	689	435	136	321	347	138	434	256	
	Pr. 2..	617	369	166	270	266	162	366	252	
	Pr. 3..	842	370	483	456	146	324	246	501	
	Pr. 4..	590	428	79	202	356	68	459	178	
	Totals..	2,738	1,602	864	1,249	1,115	692	1,505	1,187	
Wd. 11	Pr. 1..	570	298	207	280	178	188	270	289	
	Pr. 2..	551	252	203	257	152	180	257	352	
	Pr. 3..	679	215	362	333	97	288	176	566	
	Pr. 4..	629	161	324	272	72	245	128	685	
	Pr. 5..	564	191	302	280	84	202	157	476	
	Totals..	2,993	1,117	1,398	1,422	583	1,103	988	2,368	
Grand Totals ..		27,023	11,964	10,921	12,196	7,496	9,398	11,057	18,037	

WHOLE NUMBER OF
BALLOTS CAST

Hugh Gordon Andersc
79 Trowbridge St.

James T. Barrett
97 Otis St.

Nora J. Driscoll
28 William St.

William G. Heyd
150 Holworthy St.

John H. Lynch
77 Kirkland St.

John J. McCarthy
31 Putnam Ave.

Hugh J. McGinness
39 River St.

Ralph W. Robert
12 Park Ave.

Edward J. Sennott
366 Broadway

Charles H. Shea
65 Putnam Ave.

William T. Skinner
5 Rindgefield St.

Blanks

VOTES CAST AT MUNICIPAL ELECTION

Ward 1	Prec. 1.....	281	109	183	80	8	177	79	13	26	65	138	14	232
	Prec. 2.....	412	110	263	120	19	217	124	31	51	140	198	30	345
	Totals.....	693	219	446	200	27	394	203	44	77	205	336	44	577
Ward 2	Prec. 1.....	539	105	311	183	23	281	213	55	48	184	264	18	471
	Prec. 2.....	493	72	271	194	14	273	212	57	28	165	229	14	443
	Totals.....	1,032	177	582	377	37	554	425	112	76	349	493	32	914
Ward 3	Prec. 1.....	331	34	165	124	11	167	138	17	33	175	149	29	282
	Prec. 2.....	339	45	148	129	12	123	149	18	31	200	131	15	355
	Prec. 3.....	519	64	230	199	38	212	229	51	62	340	183	65	403
	Prec. 4.....	476	63	213	166	23	219	187	43	74	267	174	39	436
	Totals.....	1,665	206	756	618	84	721	703	129	200	982	637	148	1,476
Ward 4	Prec. 1.....	253	28	116	89	17	88	112	17	43	150	91	21	240
	Prec. 2.....	573	130	235	211	51	229	196	62	139	325	194	77	443
	Prec. 3.....	495	106	179	173	57	126	163	110	134	296	159	68	409
	Prec. 4.....	671	166	227	272	149	133	210	146	275	318	164	178	446
	Totals.....	1,992	430	757	745	274	576	681	335	591	1,089	608	344	1,538
Ward 5	Prec. 1.....	638	108	306	252	39	339	230	56	93	331	298	51	449
	Prec. 2.....	531	119	228	194	67	184	168	68	126	305	160	92	413
	Prec. 3.....	676	175	288	238	95	214	232	77	170	346	268	111	490
	Prec. 4.....	820	325	227	187	358	89	195	246	491	198	164	403	397
	Prec. 5.....	650	203	241	164	211	110	176	154	298	284	189	226	344
	Totals.....	3,315	930	1,290	1,035	770	936	1,001	601	1,178	1,464	1,079	883	2,093

VOTES CAST AT MUNICIPAL ELECTION

601

Totals.....		544	186	195	189	174	94	224	181	116	180	414
Prec. 2.....		712	194	256	341	289	137	230	213	235	131	557
Prec. 3.....		1,002	358	268	411	324	190	450	251	245	334	741
Totals.....		2,590	839	848	1,066	884	475	1,007	764	702	730	1,971
Ward 7												
Prec. 1.....		770	205	222	255	340	174	283	236	329	222	503
Prec. 2.....		634	165	199	243	329	80	162	174	317	81	613
Prec. 3.....		904	329	195	263	165	317	475	207	199	375	643
Prec. 4.....		645	187	195	265	242	186	247	151	236	153	476
Totals.....		2,953	886	811	1,026	1,076	757	1,167	768	1,081	831	2,235
Ward 8												
Prec. 1.....		523	185	124	88	91	187	314	68	181	260	297
Prec. 2.....		754	197	220	184	254	179	304	188	386	230	477
Prec. 3.....		879	135	261	382	560	88	153	167	646	82	781
Prec. 4.....		735	243	159	116	163	234	472	109	220	381	426
Totals.....		2,891	760	764	770	1,068	688	1,243	532	1,433	953	1,981
Ward 9												
Prec. 1.....		719	245	171	120	88	306	503	107	106	460	299
Prec. 2.....		703	187	124	138	142	271	421	106	216	379	416
Prec. 3.....		585	149	148	131	144	179	313	92	228	257	373
Prec. 4.....		457	74	168	189	198	99	130	107	221	87	271
Prec. 5.....		716	214	239	215	187	154	340	169	271	243	455
Prec. 6.....		981	195	395	360	360	187	345	320	435	275	567
Totals.....		4,161	1,064	1,245	1,153	1,119	1,196	2,052	901	1,477	1,701	2,381
Ward 10												
Prec. 1.....		689	272	180	173	134	221	388	124	159	350	354
Prec. 2.....		617	255	214	159	162	123	285	126	160	291	344
Prec. 3.....		842	186	359	354	402	94	194	266	567	136	467
Prec. 4.....		590	251	149	74	58	209	402	86	74	378	316
Totals.....		2,738	964	902	760	756	647	1,269	602	960	1,155	1,481
Ward 11												
Prec. 1.....		570	180	257	173	157	102	221	146	223	234	312
Prec. 2.....		551	157	230	201	172	73	176	171	200	196	382
Prec. 3.....		679	146	309	259	317	62	122	205	295	237	480
Prec. 4.....		629	140	242	246	286	75	75	139	312	180	525
Prec. 5.....		564	179	260	210	265	77	97	149	203	176	364
Totals.....		2,993	802	1,298	1,089	1,197	389	691	810	1,233	1,023	2,063

COUNCILLORS—Continued

Wd. 5		WHOLE NUMBER OF BALLOTS CAST										Blanks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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WHOLE NUMBER OF
BALLOTS CAST

VOTES CAST AT MUNICIPAL ELECTION

Ward 9	Prec. 1.....	719	65	568	48	38	Blanks	Charles A. Delaney 34 Sparks St.	Arthur Drinkwater 993 Memorial Drive	Frank M. Nolan 205 Lake View Ave.	Blanks	Horace A. Skilton 61 Garfield St.	Wallace Jones 21 Washington Ave.	Blanks	Michael J. Duggan 19 Washburn Ave.	Daniel P. Leahy 11 Montgomery St.	Telesphore Malo 119 Dudley St.	Thomas S. White 2016 Mass. Ave.	Blanks
	Prec. 2.....	703	174	453	33	43													
	Prec. 3.....	585	215	331	16	23													
	Prec. 4.....	458	229	105	66	58													
	Prec. 5.....	716	108	339	227	42													
	Prec. 6.....	981	294	341	275	71													
	Totals.....	4,162	1,085	2,137	665	275													
Ward 10	Prec. 1.....	689					Blanks	581	0	108	Blanks	581	0	108	Michael J. Duggan 19 Washburn Ave.	Daniel P. Leahy 11 Montgomery St.	Telesphore Malo 119 Dudley St.	Thomas S. White 2016 Mass. Ave.	Blanks
	Prec. 2.....	617																	
	Prec. 3.....	840																	
	Prec. 4.....	590																	
	Totals.....	2,736																	
Ward 11	Prec. 1.....	570					Blanks	2,003	1	732	Blanks	2,003	1	732	Michael J. Duggan 19 Washburn Ave.	Daniel P. Leahy 11 Montgomery St.	Telesphore Malo 119 Dudley St.	Thomas S. White 2016 Mass. Ave.	Blanks
	Prec. 2.....	551																	
	Prec. 3.....	679																	
	Prec. 4.....	629																	
	Prec. 5.....	564																	
	Totals.....	2,993																	
Grand Totals.....		27,021													136	1,646	839	274	98

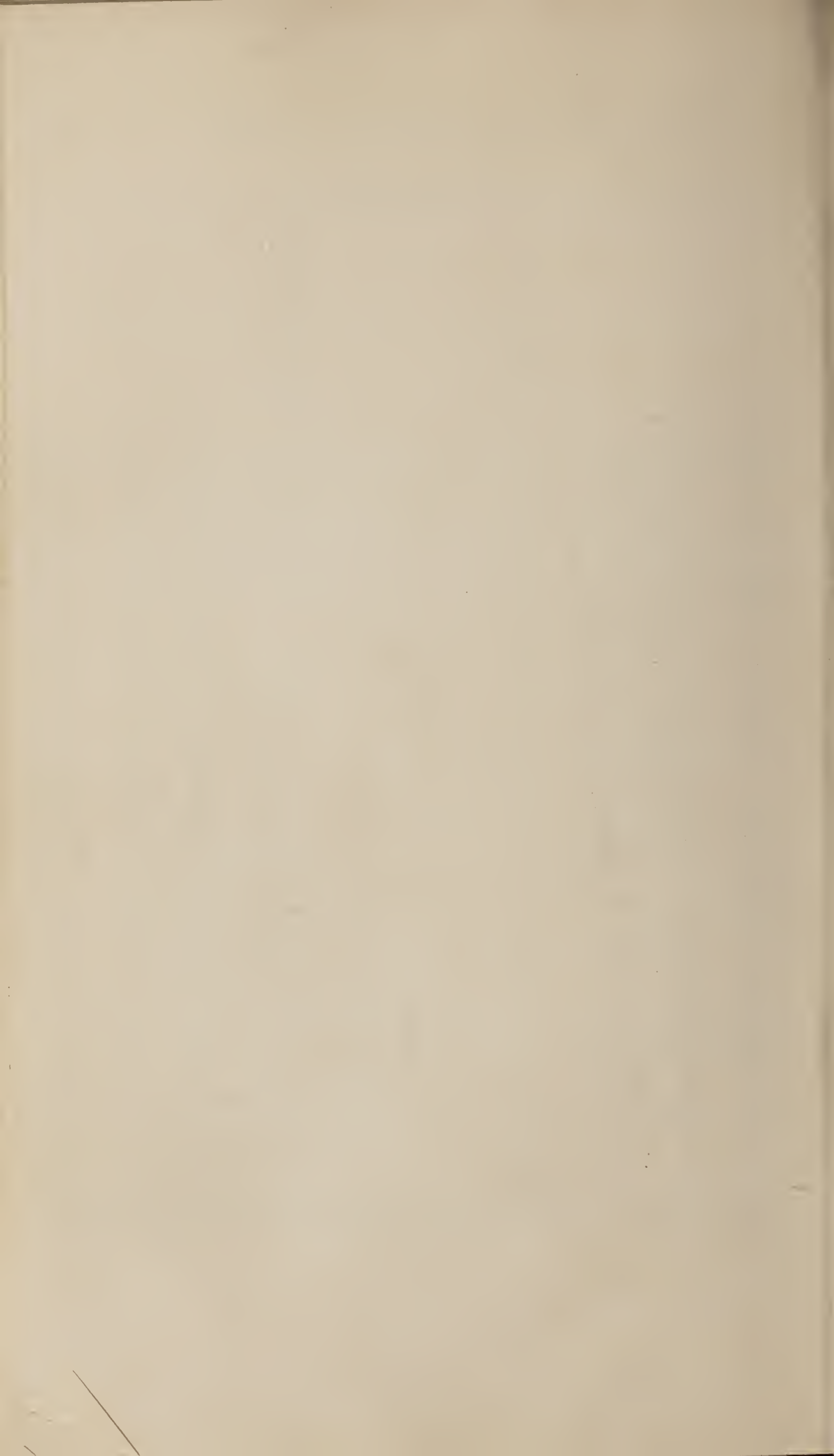
		LICENSE			
		WHOLE NUMBER OF BALLOTS CAST	Yes	No	Blanks
Ward 1	Prec. 1.....	280	92	32	156
	Prec. 2.....	412	163	83	166
	Totals.....	692	255	115	322
Ward 2	Prec. 1.....	539	175	116	248
	Prec. 2.....	493	185	84	224
	Totals.....	1,032	360	200	472
Ward 3	Prec. 1.....	331	117	46	168
	Prec. 2.....	339	114	62	164
	Prec. 3.....	519	203	113	203
	Prec. 4.....	476	164	119	192
	Totals.....	1,665	598	340	727
Ward 4	Prec. 1.....	253	109	47	97
	Prec. 2.....	573	217	176	180
	Prec. 3.....	495	176	140	179
	Prec. 4.....	671	229	250	192
	Totals.....	1,992	731	613	648
Ward 5	Prec. 1.....	638	261	188	188
	Prec. 2.....	531	166	209	156
	Prec. 3.....	676	223	261	192
	Prec. 4.....	820	243	391	186
	Prec. 5.....	650	196	293	161
	Totals.....	3,315	1,089	1,342	883
Ward 6	Prec. 1.....	332	160	77	95
	Prec. 2.....	544	201	204	139
	Prec. 3.....	712	281	224	207
	Prec. 4.....	1,003	307	417	279
	Totals.....	2,591	949	922	720

VOTES CAST AT MUNICIPAL ELECTION

607

LICENSE—Continued

		WHOLE NUMBER OF BALLOTS CAST	Yes	No	Blanks
Ward 7	Prec. 1.....	770	290	251	229
	Prec. 2.....	634	240	144	250
	Prec. 3.....	904	236	392	275
	Prec. 4.....	645	243	200	202
	Totals.....	2,953	1,009	987	956
Ward 8	Prec. 1.....	524	131	256	137
	Prec. 2.....	754	282	260	212
	Prec. 3.....	879	342	201	336
	Prec. 4.....	735	187	365	183
	Totals.....	2,892	942	1,082	868
Ward 9	Prec. 1.....	719	174	349	196
	Prec. 2.....	703	238	280	185
	Prec. 3.....	585	237	200	148
	Prec. 4.....	458	181	150	127
	Prec. 5.....	716	249	270	197
	Prec. 6.....	981	367	331	283
	Totals.....	4,162	1,446	1,580	1,136
Ward 10	Prec. 1.....	689	182	325	182
	Prec. 2.....	617	172	256	189
	Prec. 3.....	840	336	201	303
	Prec. 4.....	590	127	291	172
	Totals.....	2,736	817	1,073	846
Ward 11	Prec. 1.....	570	195	225	150
	Prec. 2.....	551	229	178	144
	Prec. 3.....	679	272	207	200
	Prec. 4.....	629	261	145	223
	Prec. 5.....	564	227	167	170
	Totals.....	2,993	1,184	922	887
Grand Totals.....		27,021	9,380	9,176	8,465



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